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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 27.1585 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672a-8
Perfect score: 1935
Sequence: 1 MKIRLHTLLAVTLAAPLLA.....QPLPAVVKLSALTIATISS 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: Issued Patents AA:*
2: /cgn2_6/prodata/1/iaa/5 COMB.pep:*
3: /cgn2_6/prodata/1/iaa/6 COMB.pep:*
4: /cgn2_6/prodata/1/iaa/H COMB.pep:*
5: /cgn2_6/prodata/1/iaa/PCTUS COMB.pep:*
6: /cgn2_6/prodata/1/iaa/RE COMB.pep:*
7: /cgn2_6/prodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1935	100.0	374	2	US-09-056-556-155 Sequence 155, App
2	1935	100.0	374	2	US-09-072-596-150 Sequence 150, App
3	1935	100.0	374	2	US-09-072-596-155 Sequence 155, App
4	1935	100.0	374	2	US-09-287-849-40 Sequence 40, App1
5	1935	100.0	374	2	US-10-193-002-150 Sequence 150, App
6	1935	100.0	374	2	US-10-084-843-155 Sequence 155, App
7	1935	99.8	374	2	US-08-818-112-153 Sequence 153, App
8	1931	99.8	374	2	US-08-818-111-148 Sequence 148, App
9	1931	99.8	374	2	US-09-056-556-153 Sequence 153, App
10	1931	99.8	374	2	US-09-072-596-148 Sequence 148, App
11	1931	99.8	374	2	US-09-072-867-153 Sequence 153, App
12	1931	99.8	374	2	US-09-287-849-6 Sequence 6, App11
13	1931	99.8	374	2	US-10-193-002-148 Sequence 148, App
14	1931	99.8	374	2	US-10-084-843-153 Sequence 153, App
15	1920.5	99.3	373	2	US-09-118-426-5 Sequence 5, App1
16	1920.5	99.3	373	2	US-09-056-556-214 Sequence 214, App
17	1821.5	94.1	802	2	US-09-072-596-209 Sequence 209, App
18	1821.5	94.1	802	2	US-09-072-596-346 Sequence 346, App
19	1821.5	94.1	802	2	US-09-072-596-346 Sequence 346, App
20	1821.5	94.1	802	2	US-09-072-596-351 Sequence 351, App
21	1821.5	94.1	802	2	US-09-072-596-351 Sequence 351, App
22	1821.5	94.1	802	2	US-09-287-849-10 Sequence 10, App1
23	1821.5	94.1	802	2	US-10-193-002-209 Sequence 209, App
24	1821.5	94.1	802	2	US-10-084-843-214 Sequence 214, App
25	1821.5	94.1	802	2	US-10-084-843-214 Sequence 214, App
26	1820	94.1	351	2	US-09-118-426-6 Sequence 6, App11
27	1820	94.1	652	2	US-09-072-596-350 Sequence 350, App

28	1820	94.1	652	2	US-09-072-967-355 Sequence 355, App
29	1820	94.1	652	2	US-10-193-002-350 Sequence 350, App
30	1820	94.1	652	2	US-10-084-843-355 Sequence 355, App
31	421	21.8	359	2	US-09-543-681A-681.5 Sequence 681.5, App
32	418	21.6	348	1	US-07-989-845-2 Sequence 2, App1
33	418	21.6	348	4	PCT-US93-11298-2 Sequence 2, App1
34	413.5	21.4	359	2	US-09-489-039A-10627 Sequence 10627, App
35	386	19.9	432	2	US-08-311-731A-251 Sequence 251, App
36	346.5	17.9	364	2	US-08-818-112-73 Sequence 73, App1
37	346.5	17.9	364	2	US-08-818-111-74 Sequence 74, App1
38	346.5	17.9	364	2	US-09-056-556-73 Sequence 73, App1
39	346.5	17.9	364	2	US-09-072-596-74 Sequence 74, App1
40	346.5	17.9	364	2	US-09-072-867-73 Sequence 73, App1
41	346.5	17.9	364	2	US-10-193-002-74 Sequence 74, App1
42	346.5	17.9	364	2	US-10-084-843-73 Sequence 73, App1
43	343.5	17.8	372	2	US-08-311-731A-379 Sequence 379, App
44	285	14.7	375	2	US-09-602-777A-342 Sequence 342, App
45	237.5	12.3	301	2	US-09-107-532A-4953 Sequence 4953, App

ALIGNMENTS

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RESULT 1
US-09-056-556-155
; Sequence 155, Application US/09056556
; Patent No. 6350456
;
GENERAL INFORMATION:
;
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
;
COMPUTER READABLE FORM:
;
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
;
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056, 556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Marki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
;
INFORMATION FOR SEQ. ID NO: 155:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
;
US-09-056-556-155
;
Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 MKIRLHTLLAVTLAAPLLAAGCGSKPBGSEGTGAGTATTPASSPVTLAETGSL 60

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Db 61 LVPFLWGPAPHERPNTTITTAQGTGSGAGIAQAAAGVNI GASPAYLSEGGMAAHKGL 120
Qy 121 NMIALAISAOQVYNNLPVSEHLKNGKVLAAAYOGTITKTWDDPQJIALNPGVNLPGTAV 180
Db 121 NMIALAISAOQVYNNLPVSEHLKNGKVLAAAYOGTITKTWDDPQJIALNPGVNLPGTAV 180
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Db 241 TPGCAVYIGISFLDQASQSGELGSAQLGSSGNFLLPDAQSIQAAAAGFASKTPANOAISM 300
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Db 301 IDGPAPDGYPIINYEYAIVNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 2
US-09-072-596-150
; Sequence 150, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yashir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072, 596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-09-072-596-150

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;

Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MKIRLHTLAVITAAPELILAAAGCGSPSGSPETGAGTVAATTPASSPVTLAETGSL 60
Db 1 MKIRLHTLAVITAAPELILAAAGCGSPSGSPETGAGTVAATTPASSPVTLAETGSL 60
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Db 61 LVPFLWGPAPHERPNTTITTAQGTGSGAGIAQAAAGVNI GASPAYLSEGGMAAHKGL 120
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Db 121 NMIALAISAOQVYNNLPVSEHLKNGKVLAAAYOGTITKTWDDPQJIALNPGVNLPGTAV 180
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Db 181 VPLHRSDSGDTFLFTQYLSKODPEGWGKSPGFTTVDPAPVAGALGNGNGMTGCAE 240
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Db 241 TPGCAVYIGISFLDQASQSGELGSAQLGSSGNFLLPDAQSIQAAAAGFASKTPANOAISM 300
Qy 301 IDGPAPDGYPIINYEYAIVNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Db 301 IDGPAPDGYPIINYEYAIVNNRQKDAATAQTLOAFHMAITDGNKASFLDOVHFOPLPRA 360
Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 3
US-09-072-967-155
; Sequence 155, Application US/09072967
; Patent No. 6592877
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yashir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072, 967
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:

LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-967-155

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 LYLPLNMGPAFERPNTVITTAQGTSGAGIAQAAAGTVNIGASDAVYISSEGMAAHKGL 120
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QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 4
US-09-287-849-40
Sequence 40, Application US/09287849
Patent No. 6627198
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287,849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 40
LENGTH: 374
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: 38 kd antigen

US-09-287-849-40
Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKRLHTLLAVLTAAPLLAAAGCGSKPPGSGPBTGAGTVAATTPASSPVTLAETGSTL 60
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DB 61 LYLPLNMGPAFERPNTVITTAQGTSGAGIAQAAAGTVNIGASDAVYISSEGMAAHKGL 120
QY 121 MNIALAISAOQVYNNPGVSEHLKLNKGVLAAMYOGTIKTWDDPQIALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNPGVSEHLKLNKGVLAAMYOGTIKTWDDPQIALNPGVNLPGTAV 180
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DB 181 VPLHRSDSGDTFLFTQYLSKODPEGWKGSPGFTTVDPFPAVPGALGENGNGMVTGCAL 240
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DB 241 TPCCVAVYIGISFLDQASQRLGEAQLGNSGNFLPDAOSIQAAAAGFASKTPANOISM 300
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DB 301 IDGPADGVPPIINVEYAIIVNNRQDAATAQTLOAFILHMAITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 5
US-10-193-002-150
Sequence 150, Application US/10193002
Patent No. 6949246
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Veddzik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESS: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-May-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 150:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 150:
US-10-193-002-150

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
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DB 61 LVPFLNMGPAFERYPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDPTFLFTQYLSKODPEGWGKSPGGTIVDPAPVAGALGENGNGMVTGCAG 240
DB 181 VPLHRSDGSDPTFLFTQYLSKODPEGWGKSPGGTIVDPAPVAGALGENGNGMVTGCAG 240
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DB 241 TPGCVAYIGISFLDQASQRLGEAOLGNSSGNFLPDQOSIQAAAAGFASKTPANQALSM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFILHMAITTDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFILHMAITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 6
US-10-084-843-155
Sequence 155, Application US/10084843
Patent No. 6962710
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 155:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 155:
US-10-084-843-155

Query Match 100.0%; Score 1935; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-169;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 MKIRLHTLLAVLTAAFLLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LVPFLNMGPAFERYPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
DB 61 LVPFLNMGPAFERYPNTVITTAQGTSGAGIAQAAGTVNIGASDAYLSEGDMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
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DB 181 VPLHRSDGSDPTFLFTQYLSKODPEGWGKSPGGTIVDPAPVAGALGENGNGMVTGCAG 240
QY 241 TPGCVAYIGISFLDQASQRLGEAOLGNSSGNFLPDQOSIQAAAAGFASKTPANQALSM 300
DB 241 TPGCVAYIGISFLDQASQRLGEAOLGNSSGNFLPDQOSIQAAAAGFASKTPANQALSM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFILHMAITTDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFILHMAITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 7
US-08-818-112-153
Sequence 153, Application US/08818112
Patent No. 6290969
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-818-112-153

Query Match Best Local Similarity 99.8%; Score 1931; DB 2; Length 374;

Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPELLAAAGCGSKPPSGSPETGAGCTVATTTPASSPVTLAETGSTL 60
DB 1 VKIRLHTLLAVLTAAPELLAAAGCGSKPPSGSPETGAGCTVATTTPASSPVTLAETGSTL 60
QY 61 LYLFLNMGPAFERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
DB 61 LYLFLNMGPAFERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPVSEHLKLNKGYLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPVSEHLKLNKGYLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPFPAVPGALGENGNGMTGCAC 240
DB 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPFPAVPGALGENGNGMTGCAC 240
QY 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
DB 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYVAIVNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYVAIVNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 8

US-08-818-111-148
; Sequence 148, Application US/08818111
; Patent No. 5338652
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.

APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-818-111-148

Query Match Best Local Similarity 99.8%; Score 1931; DB 2; Length 374;

Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPELLAAAGCGSKPPSGSPETGAGCTVATTTPASSPVTLAETGSTL 60
DB 1 VKIRLHTLLAVLTAAPELLAAAGCGSKPPSGSPETGAGCTVATTTPASSPVTLAETGSTL 60
QY 61 LYLFLNMGPAFERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
DB 61 LYLFLNMGPAFERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAYISEGMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPVSEHLKLNKGYLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPVSEHLKLNKGYLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPFPAVPGALGENGNGMTGCAC 240
DB 181 VPLHRSDGSDTFLFTQYLSKODPEGWKGSPGFTTVDPFPAVPGALGENGNGMTGCAC 240
QY 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
DB 241 TPCCVAVYIGISFLDQASORGLGAOLGNSSGNFLPDAGSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYVAIVNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINVEYVAIVNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 9

US-09-056-556-153
; Sequence 153, Application US/09056556

Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ. ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-056-556-153

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPLLIAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 VKIRLHTLLAVLTAAPLLIAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LVPFLFNLGMPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAVYISEGMAAHKGL 120
DB 61 LVPFLFNLGMPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAVYISEGMAAHKGL 120
QY 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
DB 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVPGALGENGGMVTCAB 240
DB 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVPGALGENGGMVTCAB 240
QY 241 TRGCVAVYIGISFLDQASQKGLBAQJGNSGNFLPDAOSIQAAAAGFASKTPANQAISM 300
DB 241 TRGCVAVYIGISFLDQASQKGLBAQJGNSGNFLPDAOSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPRA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPRA 360
QY 361 VVKLSDALIAITISS 374
DB 361 VVKLSDALIAITISS 374

RESULT 10
US-09-072-596-148

Sequence 148, Application US/09072596
Patent No. 6458365
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Iodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ. ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-596-148

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPLLIAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 VKIRLHTLLAVLTAAPLLIAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LVPFLFNLGMPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAVYISEGMAAHKGL 120
DB 61 LVPFLFNLGMPAPHERYPNVTITTAQGTGSGAGIAQAAGTVNIGASDAVYISEGMAAHKGL 120
QY 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
DB 121 MNIALAISAQOVVYNLPVSEHLKNGKVLAAVYOGTITKTWDDPQIALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVPGALGENGGMVTCAB 240
DB 181 VPLHRSDSGDFTFLFYQYLSKODPEGWGKSPGRTTVDPFPAVPGALGENGGMVTCAB 240
QY 241 TRGCVAVYIGISFLDQASQKGLBAQJGNSGNFLPDAOSIQAAAAGFASKTPANQAISM 300
DB 241 TRGCVAVYIGISFLDQASQKGLBAQJGNSGNFLPDAOSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPRA 360
DB 301 IDGPAPDGYPIINVEYAIYNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPRA 360

QY 361 VKLSDALIATISS 374
Db 361 VKLSDALIATISS 374

RESULT 11
US-09-072-967-153
Sequence 153, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-967-153

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRIHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSTL 60
Db 1 VKRIHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSTL 60

QY 61 LVPLEFMGPAFERIPNVTITTAQGTGSGAGIAQAAGTVNIGASDAIYISEGMAAHKGL 120
Db 61 LVPLEFMGPAFERIPNVTITTAQGTGSGAGIAQAAGTVNIGASDAIYISEGMAAHKGL 120

QY 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180

QY 181 VPLHRSDGSGDTLFTQYISKODPEGWGSKPGFTTVDPPAVGALGENGNGMTGCAE 240
Db 181 VPLHRSDGSGDTLFTQYISKODPEGWGSKPGFTTVDPPAVGALGENGNGMTGCAE 240

QY 241 TPGCAVYIGISFLDQASQKGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANOALISM 300
Db 241 TPGCAVYIGISFLDQASQKGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANOALISM 300

QY 301 IDGPADPGYPIINVEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLQVHFQPLPPA 360
Db 301 IDGPADPGYPIINVEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLQVHFQPLPPA 360

QY 361 VKLSDALIATISS 374
Db 361 VKLSDALIATISS 374

RESULT 12
US-09-287-849-6
Sequence 6, Application US/09287849
Patent No. 6627198
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
TITLE OF INVENTION: and Their Uses
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287,849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patent in Ver. 2.1
SEQ ID NO 6
LENGTH: 374
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: tri-fusion
US-09-287-849-6

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRIHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSTL 60
Db 1 VKRIHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGTVAATTPASSPVTLAETGSTL 60

QY 61 LVPLEFMGPAFERIPNVTITTAQGTGSGAGIAQAAGTVNIGASDAIYISEGMAAHKGL 120
Db 61 LVPLEFMGPAFERIPNVTITTAQGTGSGAGIAQAAGTVNIGASDAIYISEGMAAHKGL 120

QY 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVYNNLPGVSEHLKNGKYLAAAMYOGTITKTWDDPQIAALNPGVNLPGTAV 180

QY 181 VPLHRSDGSGDTLFTQYISKODPEGWGSKPGFTTVDPPAVGALGENGNGMTGCAE 240
Db 181 VPLHRSDGSGDTLFTQYISKODPEGWGSKPGFTTVDPPAVGALGENGNGMTGCAE 240

QY 241 TPGCAVYIGISFLDQASQKGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANOALISM 300
Db 241 TPGCAVYIGISFLDQASQKGLGEAOLGNSGNFLPDAQSIQAAAAGFASKTPANOALISM 300

QY 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
DB 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 13
US-10-193-002-148
; Sequence 148, Application US/10193002
; Patent No. 6949246
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
MOLECULE TYPE: protein
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-10-193-002-148

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRTHHTLAAVLTAAPIILAAAGCGKPSGSPBTGAGTVAITTPASSPVTLAETGSL 60
DB 1 VKIRHTHTLAAVLTAAPIILAAAGCGKPSGSPBTGAGTVAITTPASSPVTLAETGSL 60
QY 61 LYPLEMLMGAFHERYPNVTITTAOGTSGAGIAQAAGTWNIGASDAVYISEGMAAHKGL 120
DB 61 LYPLEMLMGAFHERYPNVTITTAOGTSGAGIAQAAGTWNIGASDAVYISEGMAAHKGL 120

QY 121 MNIALAISQAQVNVNLPVSEHKLKNGKVLAAAYOGTITKTPDDPOLAALNPGVNLPGTAV 180
DB 121 MNIALAISQAQVNVNLPVSEHKLKNGKVLAAAYOGTITKTPDDPOLAALNPGVNLPGTAV 180
QY 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPFGTTVDPEPAVGAIGENGGMVTGCAC 240
DB 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPFGTTVDPEPAVGAIGENGGMVTGCAC 240
QY 241 TPGCAVYIGISFLDQASORGLGEAOLGNSGNYELLPDQASIQAAAAGFASKTPANQISM 300
DB 241 TPGCAVYIGISFLDQASORGLGEAOLGNSGNYELLPDQASIQAAAAGFASKTPANQISM 300
QY 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
DB 301 IDGPADGYPINYEYAIYNNRQDAATQTLQAFIHWAITDGNKASFLDOVHFGPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 14
US-10-084-843-153
; Sequence 153, Application US/10084843
; Patent No. 6962710
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
MOLECULE TYPE: protein
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 153:
US-10-084-843-153

Query Match 99.8%; Score 1931; DB 2; Length 374;
Best Local Similarity 99.7%; Pred. No. 2.6e-169;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIRLHTLLAVLTAAPLLAAAGCGSKPSPETGAGTVAATTPASSPVTLAETGSL 60
DB 1 VKIRLHTLLAVLTAAPLLAAAGCGSKPSPETGAGTVAATTPASSPVTLAETGSL 60
QY 61 LYPFLNMGPAFHERYPNTTITTAQGTSGAGIAQAAGTINIGASDAYLSEGDMAAHKGL 120
DB 61 LYPFLNMGPAFHERYPNTTITTAQGTSGAGIAQAAGTINIGASDAYLSEGDMAAHKGL 120
QY 121 MNIALAISAOQVYNNLPGVSEHLKNGKVLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOQVYNNLPGVSEHLKNGKVLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDTELFYQYLSKODPEGMGSKPGFTTVDPPAVPGALGENNGMVTGCAG 240
DB 181 VPLHRSDSGDTELFYQYLSKODPEGMGSKPGFTTVDPPAVPGALGENNGMVTGCAG 240
QY 241 TPGCVAYIGISFLDQASQSGLSGAEQNGSNGFLLPDAQSIQAAAAGFASKTPANQAISM 300
DB 241 TPGCVAYIGISFLDQASQSGLSGAEQNGSNGFLLPDAQSIQAAAAGFASKTPANQAISM 300
QY 301 IDGPAPDGYPIINYEYALVNNRQKDAATAQTLOAFHMAITDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGYPIINYEYALVNNRQKDAATAQTLOAFHMAITDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

RESULT 15
US-09-118-426-5
; Sequence 5, Application US/09118426C
; Patent No. 6517839
; GENERAL INFORMATION:
; APPLICANT: Modlin, Robert L.
; APPLICANT: Librady, Daniel H.
; TITLE OF INVENTION: METHODS FOR INDUCING INTERLEUKIN-12 AND A TYPE 1/TH1
; FILE REFERENCE: 30435.4US01
; CURRENT APPLICATION NUMBER: US/09/118,426C
; EARLIER FILING DATE: 1998-07-17
; EARLIER APPLICATION NUMBER: 60/052,970
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; PUBLICATION INFORMATION:
; JOURNAL: Infect. Immun.
; VOLUME: 57
; ISSUE: 8
; PAGES: 2481-
; DATE: 1989
US-09-118-426-5

Query Match 99.3%; Score 1920.5; DB 2; Length 373;
Best Local Similarity 99.7%; Pred. No. 2.4e-168;
Matches 373; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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QY 361 VVKLSDALIATISS 374
DB 360 VVKLSDALIATISS 373

Search completed: February 3, 2006, 17:02:24
Job time : 28.1585 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 86.6585 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672a-8
Sequence: 1 MKRRLHTLAVLTAAFLA.....QPLPAVKLSALATISS 374

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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:*

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2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1935	100.0	374	3	US-09-287-849-40 Sequence 40, App1
2	1935	100.0	374	4	US-09-886-349A-39 Sequence 39, App1
3	1935	100.0	374	4	US-10-193-002-150 Sequence 150, App1
4	1935	100.0	374	4	US-10-084-843-155 Sequence 155, App1
5	1935	100.0	374	4	US-10-359-460-40 Sequence 40, App1
6	1935	100.0	374	4	US-10-098-732A-39 Sequence 39, App1
7	1935	100.0	374	6	US-11-028-898-155 Sequence 155, App1
8	1935	100.0	374	6	US-11-082-005-150 Sequence 150, App1
9	1931	99.8	374	4	US-09-287-849-6 Sequence 6, App1
10	1931	99.8	374	4	US-10-193-002-148 Sequence 148, App1
11	1931	99.8	374	4	US-10-084-843-153 Sequence 153, App1
12	1931	99.8	374	4	US-10-359-460-6 Sequence 6, App1
13	1931	99.8	374	4	US-10-332-512A-5 Sequence 5, App1
14	1931	99.8	374	6	US-11-028-898-153 Sequence 153, App1
15	1931	99.8	374	6	US-11-082-005-148 Sequence 148, App1
16	1821.5	94.1	802	3	US-09-287-849-10 Sequence 10, App1
17	1821.5	94.1	802	4	US-10-193-002-209 Sequence 209, App1
18	1821.5	94.1	802	4	US-10-193-002-346 Sequence 346, App1
19	1821.5	94.1	802	4	US-10-084-843-214 Sequence 214, App1
20	1821.5	94.1	802	4	US-10-084-843-351 Sequence 351, App1
21	1821.5	94.1	802	4	US-10-359-460-10 Sequence 10, App1
22	1821.5	94.1	802	6	US-11-028-898-214 Sequence 214, App1
23	1821.5	94.1	802	6	US-11-028-898-351 Sequence 351, App1
24	1821.5	94.1	802	6	US-11-082-005-209 Sequence 209, App1
25	1821.5	94.1	802	6	US-11-082-005-346 Sequence 346, App1
26	1820	94.1	652	4	US-10-193-002-350 Sequence 350, App1
27	1820	94.1	652	4	US-10-084-843-355 Sequence 355, App1

28	1820	94.1	652	6	US-11-028-898-355 Sequence 355, App1
29	1820	94.1	652	6	US-11-082-005-350 Sequence 350, App1
30	418	21.6	346	3	US-09-741-669-380 Sequence 380, App1
31	346.5	17.9	364	4	US-10-193-002-74 Sequence 74, App1
32	346.5	17.9	364	4	US-10-084-843-73 Sequence 73, App1
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34	346.5	17.9	364	6	US-11-082-005-74 Sequence 74, App1
35	322.5	16.7	368	4	US-10-156-761-11606 Sequence 11606, App1
36	285	14.7	375	3	US-09-738-626-6333 Sequence 6333, App1
37	285	14.7	375	5	US-10-721-922A-306 Sequence 306, App1
38	229.5	11.9	278	5	US-10-721-922A-308 Sequence 308, App1
39	196	10.1	481	5	US-10-450-763-59914 Sequence 59914, App1
40	184.5	9.5	642	5	US-10-450-763-59913 Sequence 59913, App1
41	176.5	9.1	292	5	US-10-472-928-2840 Sequence 2840, App1
42	176.5	9.1	299	5	US-10-617-320-4340 Sequence 4340, App1
43	170	8.8	288	5	US-10-474-792-164 Sequence 164, App1
44	164.5	8.5	288	5	US-10-650-274-165 Sequence 165, App1
45	157	8.1	284	3	US-09-071-035-138 Sequence 138, App1

ALIGNMENTS

RESULT 1
US-09-287-849-40
Sequence 40, Application US/09287849
Patent No. US20020009459A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skelky, Yaasi A.W.
APPLICANT: Dillion, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation.
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
TITLE OF INVENTION: and their Uses
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287,849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 40
LENGTH: 374
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: 38 kd antigen
US-09-287-849-40
Query Match 100.0%; Score 1935; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e+150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 301 INGPAPDGPPIINVEYAIVNNRQDAATAQTLOAFILHMAITDGNKASFLDQVHFQPLPPA 360
Db 301 IDGPAPDGPPIINVEYAIVNNRQDAATAQTLOAFILHMAITDGNKASFLDQVHFQPLPPA 360
Qy 361 VKLSDALIAITISS 374
Db 361 VKLSDALIAITISS 374

RESULT 2

US-09-686-349A-39
; Sequence 39, Application US/09886349A
; Publication No. US20040086523A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Reed, Steven
; APPLICANT: Alderson, Mark
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
; FILE REFERENCE: 014058-009070US
; CURRENT APPLICATION NUMBER: US/09/886,349A
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 09/597,796
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 60/265,737
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: 38 kd
US-09-686-349A-39

Query Match 100.0%; Score 1935; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 361 VKLSDALIAITISS 374
Db 361 VKLSDALIAITISS 374

RESULT 3

US-10-193-002-150
; Sequence 150, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedick, Thomas S.
; APPLICANT: Iwardzik, Daniel R.
; APPLICANT: Iodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-6031
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 150:
US-10-193-002-150

Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-10-084-843-155
; Sequence 155, Application US/10084843
; Publication No. US20030143243A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: AND DIAGNOSIS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 155:
US-10-084-843-155
Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 181 VPLHRSDGSDTFLFTQYLSKODPEGWGS PGFTTVDPAVPGALGNGGAVTGCAE 240
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DB 241 TPGCVAYIGISFLDOASORGLGEAOLGNSGNFLPDAOSIQAAAAGFASKTPANOISM 300
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DB 361 VVKLSDALIATISS 374
RESULT 5
US-10-359-460-40
; Sequence 40, Application US/10359460
; Publication No. US20030147911A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/10/359,460
; FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US/09/287,849
; PRIOR FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 40
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: 38 kD antigen
US-10-359-460-40
Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTBPASSPVTTLAETGSTL 60
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Db 61 LPELNLWGPAAHERYPNVTITTAOGVSGAGTAAAGAVNNIGASPAYISEGMAAHKGL 120
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Db 121 MNIALAISAOQVYNNLPVSEHLKNGKVLAAVYOGTITWDDPQJALNPGVNLPGTAV 180
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Db 181 VPLHRSDSGDTPFLFTQYLSKODPEGWGKSPGFGTTVPDPAVPGALGENGGMVTCAB 240
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Qy 301 IDGPAPDGPPIINVEYAIYNNRQKDAATQAOTLQAFLHMAITDGNKASFLDOVHFOPLPPA 360
Db 301 IDGPAPDGPPIINVEYAIYNNRQKDAATQAOTLQAFLHMAITDGNKASFLDOVHFOPLPPA 360
Qy 361 VKLSDALITATISS 374
Db 361 VKLSDALITATISS 374
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RESULT 6
US-10-098-732A-39
; Sequence 39, Application US/10098732A
; Publication No. US20030175294A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Brannon, Mark
; APPLICANT: Gudarian, Jeffrey
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
; TITLE OF INVENTION: Leishmania Antigen
; FILE REFERENCE: 014058-012010US
; CURRENT APPLICATION NUMBER: US/10/098,732A
; PRIOR FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: US 60/275,837
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: 38 kd
US-10-098-732A-39

Query Match 100.0%; Score 1935; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTBPASSPVTTLAETGSTL 60
Db 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTBPASSPVTTLAETGSTL 60
Qy 61 LPELNLWGPAAHERYPNVTITTAOGVSGAGTAAAGAVNNIGASPAYISEGMAAHKGL 120
Db 61 LPELNLWGPAAHERYPNVTITTAOGVSGAGTAAAGAVNNIGASPAYISEGMAAHKGL 120
Qy 121 MNIALAISAOQVYNNLPVSEHLKNGKVLAAVYOGTITWDDPQJALNPGVNLPGTAV 180
Db 121 MNIALAISAOQVYNNLPVSEHLKNGKVLAAVYOGTITWDDPQJALNPGVNLPGTAV 180
Qy 181 VPLHRSDSGDTPFLFTQYLSKODPEGWGKSPGFGTTVPDPAVPGALGENGGMVTCAB 240
Db 181 VPLHRSDSGDTPFLFTQYLSKODPEGWGKSPGFGTTVPDPAVPGALGENGGMVTCAB 240
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Qy 241 TPGCAVYIGISFLDQASORGLEAOLGNSGNFLLPDQOSIOAAAAGFASKTPANQAISM 300
Db 241 TPGCAVYIGISFLDQASORGLEAOLGNSGNFLLPDQOSIOAAAAGFASKTPANQAISM 300
Qy 301 IDGPAPDGPPIINVEYAIYNNRQKDAATQAOTLQAFLHMAITDGNKASFLDOVHFOPLPPA 360
Db 301 IDGPAPDGPPIINVEYAIYNNRQKDAATQAOTLQAFLHMAITDGNKASFLDOVHFOPLPPA 360
Qy 361 VKLSDALITATISS 374
Db 361 VKLSDALITATISS 374
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RESULT 7
US-11-028-898-155
; Sequence 155, Application US/11028898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Iwardzik, Daniel R.
; APPLICANT: Iodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESS: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/028,898
; FILING DATE: 03-Jan-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 03-Jan-2005
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Waki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 155:
US-11-028-898-155

Query Match 100.0%; Score 1935; DB 6; Length 374;
Best Local Similarity 100.0%; Pred. No. 1,8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIRHTLLAVTLAPELLAAAGCGSKPPSGSPETGAGATVATTBPASSPVTTLAETGSTL 60
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Db 1 MKIRLHTLLAVTLAALPALLAAAGCGSPGSGSPETGAGTVAITTPASSPVTLAETG STL 60
Qy 61 LYLFLNLMGPAFERYPNTVITTAQGTGSGAGIAQAAAGTVNIGASDAIYSEGMAAHKGL 120
Db 61 LYLFLNLMGPAFERYPNTVITTAQGTGSGAGIAQAAAGTVNIGASDAIYSEGMAAHKGL 120
Qy 121 MNIALAISAQOVVYNLPVSEHLKLNKGVLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAQOVVYNLPVSEHLKLNKGVLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
Qy 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVPAGALGENNGCMVTGCAC 240
Db 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVPAGALGENNGCMVTGCAC 240
Qy 241 TPCCVAYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIQAAAAGFASKTPANQAISM 300
Db 241 TPCCVAYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIQAAAAGFASKTPANQAISM 300
Qy 301 IDGPADGVPPIINVEYAIVNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPPA 360
Db 301 IDGPADGVPPIINVEYAIVNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPPA 360
Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 8
US-11-082-005-150
; Sequence 150, Application US/11082005
; Publication No. US20050181419A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neco, Antonio
; Houghton, Raymond
; Vedrick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/11/082.005
; FILING DATE: 15-Mar-2005
; CLASSIFICATION: <Unknown>
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/10/193.002
; FILING DATE: 10-Jul-2002
; APPLICATION NUMBER: US/09/072.596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 150:
US-11-082-005-150
Query Match 100.0%; Score 1935; DB 6; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.8e-150;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MKIRLHTLLAVTLAALPALLAAAGCGSPGSGSPETGAGTVAITTPASSPVTLAETG STL 60
Db 1 MKIRLHTLLAVTLAALPALLAAAGCGSPGSGSPETGAGTVAITTPASSPVTLAETG STL 60
Qy 61 LYLFLNLMGPAFERYPNTVITTAQGTGSGAGIAQAAAGTVNIGASDAIYSEGMAAHKGL 120
Db 61 LYLFLNLMGPAFERYPNTVITTAQGTGSGAGIAQAAAGTVNIGASDAIYSEGMAAHKGL 120
Qy 121 MNIALAISAQOVVYNLPVSEHLKLNKGVLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
Db 121 MNIALAISAQOVVYNLPVSEHLKLNKGVLAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
Qy 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVPAGALGENNGCMVTGCAC 240
Db 181 VPLHRSDGSDTFLFTQYLSKODPEGMGKSPGFTTVDPPAVPAGALGENNGCMVTGCAC 240
Qy 241 TPCCVAYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIQAAAAGFASKTPANQAISM 300
Db 241 TPCCVAYIGISFLDQASQRLGSAQLGNSGNFLPDAQSIQAAAAGFASKTPANQAISM 300
Qy 301 IDGPADGVPPIINVEYAIVNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPPA 360
Db 301 IDGPADGVPPIINVEYAIVNNRQKDAATAQTLOAFHMAITTDGNKASFLDQVHFQPLPPA 360
Qy 361 VVKLSDALIATISS 374
Db 361 VVKLSDALIATISS 374

RESULT 9
US-09-287-849-6
; Sequence 6, Application US/09287849
; Patent No. US20020009459A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neco, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287.849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818.112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942.578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025.197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056.556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223.040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 374
; TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: tri-fusion
US-09-287-849-6

Query Match 99.8%; Score 1931; DB 3; Length 374;
Best Local Similarity 99.7%; Pred. No. 3.8e-150;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 MKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
1 VKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120

121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
181 VPLHRSDSGDITFLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAR 240
181 VPLHRSDSGDITFLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAR 240

241 TPCCVAYIGISFLDQASQRLGGAQLGNSGNFLPDQOSIQAAAAGFASKTPANQAISM 300
241 TPCCVAYIGISFLDQASQRLGGAQLGNSGNFLPDQOSIQAAAAGFASKTPANQAISM 300
301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGNKASFLDOVHFOPLPPA 360
301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGNKASFLDOVHFOPLPPA 360

361 VVKLSDALIAITISS 374
361 VVKLSDALIAITISS 374

RESULT 10
US-10-193-002-148
Sequence 148, Application US/10193002
Publication No. US20030135026A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.
Dillon, David C.
Campos-Neco, Antonia
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS

NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596

FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 148:

US-10-193-002-148

Query Match 99.8%; Score 1931; DB 4; Length 374;
Best Local Similarity 99.7%; Pred. No. 3.8e-150;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 MKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
1 VKIRLHTLLAVLTAAPLLAAAGCGSKPPSGSPETGAGATVATTASSPVTLAETGSL 60
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVISEGMAAHKGL 120

121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNIPGVSEHLKNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
181 VPLHRSDSGDITFLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAR 240
181 VPLHRSDSGDITFLFTQYLSKODPEGMGKSPGFTTVDPAVPGALGNGNGMTGCAR 240

241 TPCCVAYIGISFLDQASQRLGGAQLGNSGNFLPDQOSIQAAAAGFASKTPANQAISM 300
241 TPCCVAYIGISFLDQASQRLGGAQLGNSGNFLPDQOSIQAAAAGFASKTPANQAISM 300
301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGNKASFLDOVHFOPLPPA 360
301 IDGPADGYPPIINVEYAIYNNRQKDAATQTLQAFHMAITTDGNKASFLDOVHFOPLPPA 360

361 VVKLSDALIAITISS 374
361 VVKLSDALIAITISS 374

RESULT 11
US-10-084-843-153
Sequence 153, Application US/10084843
Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.
Dillon, David C.
Campos-Neco, Antonia
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA

```

1      ZIP: 98104-7092
2
3      COMPUTER READABLE FORM:
4
5      MEDIUM TYPE: Floppy disk
6
7      COMPUTER: IBM PC compatible
8
9      OPERATING SYSTEM: PC-DOS/MS-DOS
10     SOFTWARE: PatentIn Release #1.0, Version 1.0
11
12     CURRENT APPLICATION DATA:
13
14     APPLICATION NUMBER: US/10/084,843
15
16     FILING DATE: 25-Feb-2002
17
18     CLASSIFICATION: <Unknown>
19
20     PRIOR APPLICATION DATA:
21
22     APPLICATION NUMBER: US/09/072,967
23
24     FILING DATE: 05-MAY-1998
25
26     ATTORNEY/AGENT INFORMATION:
27
28     NAME: Maki, David J.
29
30     REGISTRATION NUMBER: 31,392
31
32     REFERENCE/DOCKET NUMBER: 210121.411C
33
34     TELECOMMUNICATION INFORMATION:
35
36     TELEPHONE: (206) 622-4900
37
38     TELEFAX: (206) 682-6031
39
40     INFORMATION FOR SEQ ID NO: 153:
41
42     SEQUENCE CHARACTERISTICS:
43
44     LENGTH: 374 amino acids
45
46     TYPE: amino acid
47
48     TOPOLOGY: linear
49
50     MOLECULE TYPE: protein
51
52     SEQUENCE DESCRIPTION: SEQ ID NO: 153:
53
54     US-10-084-843-153

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PRIOR APPLICATION NUMBER: US 60/217,646
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 374
TYPE: prt
ORGANISM: Mycobacterium tuberculosis
US-10-332-512A-5

Query Match 99.8%; Score 1931; DB 4; Length 374;
Best Local Similarity 99.7%; Pred. No. 3 8e-150; Indels 0; Gaps 0;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 MKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
1 VKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAIYISEGMAAHKGL 120
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAIYISEGMAAHKGL 120
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
181 VPLHRSDSGDTFLFTQYLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVGCAE 240
181 VPLHRSDSGDTFLFTQYLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVGCAE 240
241 TPGCVAYIGISFLDQSGRLGSAQUGNSGNFLPDQOSIQAAAAGFASKTPANOAIISM 300
241 TPGCVAYIGISFLDQSGRLGSAQUGNSGNFLPDQOSIQAAAAGFASKTPANOAIISM 300
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
361 VVKLSDALIATISS 374
361 VVKLSDALIATISS 374

RESULT 14
US-11-028-898-153
Sequence 153, Application US/11028898
Publication No. US20050136069A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campes-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 153:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 153:
US-11-028-898-153

Query Match 99.8%; Score 1931; DB 6; Length 374;
Best Local Similarity 99.7%; Pred. No. 3 8e-150; Indels 0; Gaps 0;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

1 MKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
1 VKIRLHTLLAVTLTAAPLLAAAGCGSKPPSGSPETGAGATVATTPASSPVTLAETGSL 60
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAIYISEGMAAHKGL 120
61 LYPFLNMGPAFHRYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAIYISEGMAAHKGL 120
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
121 MNIALAISAOQVNVNLPVSEHKLNGKVLAAVYOGITKTWDDPQIALNPGVNLPGTAV 180
181 VPLHRSDSGDTFLFTQYLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVGCAE 240
181 VPLHRSDSGDTFLFTQYLSKODPEGMGKSPGFTTVDPFAVPGALGNGNGMVGCAE 240
241 TPGCVAYIGISFLDQSGRLGSAQUGNSGNFLPDQOSIQAAAAGFASKTPANOAIISM 300
241 TPGCVAYIGISFLDQSGRLGSAQUGNSGNFLPDQOSIQAAAAGFASKTPANOAIISM 300
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
301 IDGPAPDGYPIINYEYAIYNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFOPLPRA 360
361 VVKLSDALIATISS 374
361 VVKLSDALIATISS 374

RESULT 15
US-11-082-005-148
Sequence 148, Application US/11082005
Publication No. US20050181419A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campes-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS

NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US//11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US//10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US//09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4800
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-11-082-005-148

Query Match 99.8%; Score 1931; DB 6; Length 374;
Best Local Similarity 99.7%; Pred. No. 3.8e-150; Indels 0; Gaps 0;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKIRLHTLLAVLTAAPDLLAAAGCGSKPSPETGAGTVAATTPASSPVTIAETGSTL 60
DB 1 VKIRLHTLLAVLTAAPDLLAAAGCGSKPSPETGAGTVAATTPASSPVTIAETGSTL 60
QY 61 LYPLEMLMGPAFHERYPNTTITTAQGTGSGAGIAQAAAAGTVNIGASDAVISEGMAAHKGL 120
DB 61 LYPLEMLMGPAFHERYPNTTITTAQGTGSGAGIAQAAAAGTVNIGASDAVISEGMAAHKGL 120
QY 121 MNIALAISAOVVYNNIPGVSEHLKLNKVLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
DB 121 MNIALAISAOVVYNNIPGVSEHLKLNKVLAAAMYOGTIKTWDDPQIAALNPGVNLPGTAV 180
QY 181 VPLHRSDSGDPTLFTQYLSKODPEGWGKSPGFTTVDPAPVPGALGENGGAVTGCAC 240
DB 181 VPLHRSDSGDPTLFTQYLSKODPEGWGKSPGFTTVDPAPVPGALGENGGAVTGCAC 240
QY 241 TPGCVAYIGISFLDQASORGLGEAOLGNSSGNFLPDQSIQAAAAGFASKTPANOISM 300
DB 241 TPGCVAYIGISFLDQASORGLGEAOLGNSSGNFLPDQSIQAAAAGFASKTPANOISM 300
QY 301 IDGPAPDGPPIINVEYAIYNNRQDAATQTLQAFILHMAITTDGNKASFLDQVHFQPLPPA 360
DB 301 IDGPAPDGPPIINVEYAIYNNRQDAATQTLQAFILHMAITTDGNKASFLDQVHFQPLPPA 360
QY 361 VVKLSDALIATISS 374
DB 361 VVKLSDALIATISS 374

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 22.0122 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672A-10

Perfect score: 466

Sequence: 1 TDAATLAQEAENFERISGDL.....VOYSRADDEQOALSSQWGF 95

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA_Main:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	466	100.0	95	3	US-09-886-349A-35
2	466	100.0	95	4	US-10-193-002-89
3	466	100.0	95	4	US-10-084-843-88
4	466	100.0	95	4	US-10-098-732A-35
5	466	100.0	95	6	US-11-028-898-88
6	466	100.0	95	6	US-11-082-005-89
7	466	100.0	100	4	US-10-080-170-639
8	466	100.0	100	4	US-10-193-002-110
9	466	100.0	100	4	US-10-084-843-115
10	466	100.0	100	4	US-10-080-170-639
11	466	100.0	100	4	US-10-468-356-639
12	466	100.0	100	5	US-10-520-084-37
13	466	100.0	100	5	US-10-510-021-64
14	466	100.0	100	6	US-11-028-898-115
15	466	100.0	100	6	US-11-082-005-110
16	466	100.0	358	3	US-09-287-849-8
17	466	100.0	358	4	US-10-359-460-8
18	466	100.0	802	3	US-09-287-849-10
19	466	100.0	802	4	US-10-193-002-209
20	466	100.0	802	4	US-10-193-002-346
21	466	100.0	802	4	US-10-084-843-214
22	466	100.0	802	4	US-10-084-843-351
23	466	100.0	802	4	US-10-359-460-10
24	466	100.0	802	6	US-11-028-898-214
25	466	100.0	802	6	US-11-028-898-351
26	466	100.0	802	6	US-11-082-005-209
27	466	100.0	802	6	US-11-082-005-346

28	462	99.1	100	4	US-10-140-045-5	Sequence 5, Appli
29	392	84.1	80	4	US-10-193-002-112	Sequence 112, App
30	392	84.1	80	4	US-10-084-843-117	Sequence 117, App
31	392	84.1	80	6	US-11-028-898-117	Sequence 117, App
32	392	84.1	80	6	US-11-082-005-112	Sequence 112, App
33	217	46.6	49	4	US-10-140-045-6	Sequence 6, Appli
34	205	44.0	42	4	US-10-140-045-7	Sequence 7, Appli
35	173	37.1	100	4	US-10-140-045-28	Sequence 28, Appli
36	173	37.1	100	4	US-10-080-170-12	Sequence 12, Appli
37	173	37.1	100	4	US-10-080-170-12	Sequence 12, Appli
38	173	37.1	100	4	US-10-468-356-12	Sequence 12, Appli
39	137	29.4	28	4	US-10-140-045-12	Sequence 12, Appli
40	122	26.2	28	4	US-10-084-843-98	Sequence 98, Appli
41	122	26.2	28	6	US-11-028-898-98	Sequence 98, Appli
42	121	26.0	27	4	US-10-084-843-96	Sequence 96, Appli
43	121	26.0	27	6	US-11-028-898-96	Sequence 96, Appli
44	118	25.3	27	4	US-10-084-843-95	Sequence 95, Appli
45	118	25.3	27	4	US-10-084-843-97	Sequence 97, Appli

ALIGNMENTS

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RESULT 1
US-09-886-349A-35
; Sequence 35, Application US/09886349A
; Publication No. US20040086523A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Reed, Steven
; APPLICANT: Alderson, Mark
; APPLICANT: Corixa Corporation
; TITLE OR INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
; FILE REFERENCE: 014058-009070US
; CURRENT APPLICATION NUMBER: US/09/886,349A
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 09/597,796
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 60/265,737
; SOFTWARE: PatentIn Ver. 2.1
; NUMBER OF SEQ ID NOS: 50
; SEQ ID NO 35
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURES:
; OTHER INFORMATION: Tb38-1 or 38-1 (MTb11)
US-09-886-349A-35

Query Match      100.0%; Score 466; DB 3; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TDAATLAQEAENFERISGDLKTQIDQVESTAGSLQCGWRGAGTAQAAYVRFQEAANKQ 60
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DB      1 TDAATLAQEAENFERISGDLKTQIDQVESTAGSLQCGWRGAGTAQAAYVRFQEAANKQ 60
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QY      61 KOELDEISTNIRQAGVQVYSRADDEQOALSSQWGF 95
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DB      61 KOELDEISTNIRQAGVQVYSRADDEQOALSSQWGF 95
      |||

RESULT 2
US-10-193-002-89
; Sequence 89, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
```

Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 89:
US-10-193-002-89
Query Match 100.0%; Score 466; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 6,7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 TDAATLAQEAQNGFERISGDKTQIDQVESTAGSLQGGWRGAAGTAQAAYVRFQEAANKQ 60
QY 61 KOELDEISTNIRQAGVGYSPRADEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVGYSPRADEEQOALSSQMGF 95
RESULT 3
US-10-084-843-88
Sequence 88, Application US/10084843
Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESSES:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 88:
US-10-084-843-88
Query Match 100.0%; Score 466; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 6,7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATLAQEAQNGFERISGDKTQIDQVESTAGSLQGGWRGAAGTAQAAYVRFQEAANKQ 60
DB 1 TDAATLAQEAQNGFERISGDKTQIDQVESTAGSLQGGWRGAAGTAQAAYVRFQEAANKQ 60
QY 61 KOELDEISTNIRQAGVGYSPRADEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVGYSPRADEEQOALSSQMGF 95
RESULT 4
US-10-098-732A-35
Sequence 35, Application US/10098732A
Publication No. US20030175294A1
GENERAL INFORMATION:
APPLICANT: Skeiky, Yasir
Bramon, Mark
APPLICANT: Gudarian, Jeffrey
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
FILE REFERENCE: 014058-012010US
CURRENT APPLICATION NUMBER: US/10/098,732A
CURRENT FILING DATE: 2003-04-29
PRIOR APPLICATION NUMBER: US 60/275,837
PRIOR FILING DATE: 2001-03-13
NUMBER OF SEQ ID NOS: 80
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 35
LENGTH: 95
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: Tb38-1 or 38-1 (MTb11)
US-10-098-732A-35

Query Match 100.0%; Score 466; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEAAKQ 60

Qy 61 KOELDEISTNIRQAGVQYSRADBEQQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQYSRADBEQQOALSSQMGF 95

RESULT 5
US-11-028-898-88
Sequence 88, Application US/11028898
Publication No. US20050136069A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 88:

US-11-028-898-88

Query Match 100.0%; Score 466; DB 6; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEAAKQ 60
Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEAAKQ 60

Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEAAKQ 60
Qy 61 KOELDEISTNIRQAGVQYSRADBEQQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQYSRADBEQQOALSSQMGF 95

RESULT 6
US-11-082-005-89
Sequence 89, Application US/11082005
Publication No. US2005018419A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 89:

US-11-082-005-89

Query Match 100.0%; Score 466; DB 6; Length 95;
Best Local Similarity 100.0%; Pred. No. 6.7e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEAAKQ 60
Db 1 TDAATTAQEAENFERISGDLKTQIDQVESTAGSLQGWRGAAGTAQAQAAVVRFOEAAKQ 60

Qy 61 KOELDEISTNIRQAGVQYSRADBEQQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQYSRADBEQQOALSSQMGF 95

RESULT 7
US-10-080-170-639
Sequence 639, Application US/10080170
Publication No. US20030129601A1
GENERAL INFORMATION:
APPLICANT: COLE, S.T.
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TREATMENT OF MYCOBACTERIOSES
FILE REFERENCE: 03495.0218
CURRENT APPLICATION NUMBER: US/10/080,170
CURRENT FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 652
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO: 639
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-080-170-639

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAAGNFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 60
DB 6 TDAATLAQEAAGNFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

RESULT 8
US-10-193-002-110
Sequence 110, Application US/10193002
Publication No. US20030135026A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 110:
US-10-193-002-110

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAAGNFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 60
DB 6 TDAATLAQEAAGNFERISGDIKTQIDQVESTAGSLQCGWRGAAGTAAQAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

RESULT 9
US-10-084-843-115
Sequence 115, Application US/10084843
Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:

LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 115:
US-10-084-843-115

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 60
DB 6 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 10
US-10-080-170-639
Sequence 639, Application US/10080170
Publication No. US20040121322A9

GENERAL INFORMATION:
APPLICANT: COLE, S.T.
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TREATMENT OF MYCOBACTERIOSES
FILE REFERENCE: 03495.0218
CURRENT APPLICATION NUMBER: US/10/080.170
CURRENT FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 652
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 639
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-080-170-639

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 60
DB 6 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 11
US-10-468-356-639
Sequence 639, Application US/10468356
Publication No. US20040197896A1

GENERAL INFORMATION:
APPLICANT: COLE, STEWART
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TREATMENT OF MYCOBACTERIOSES
FILE REFERENCE: 05394.0019
CURRENT APPLICATION NUMBER: US/10/468.356
CURRENT FILING DATE: 2003-08-19
PRIOR APPLICATION NUMBER: 10/080,170
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 655
SOFTWARE: Patentin Ver. 3.2

SEQ ID NO 639
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-468-356-639

Query Match 100.0%; Score 466; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 60
DB 6 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 12
US-10-520-084-37
Sequence 37, Application US/10520084
Publication No. US20050208594A1

GENERAL INFORMATION:
APPLICANT: Ajit LALVANI
APPLICANT: Katie EWER
TITLE OF INVENTION: ISIS INNOVATION LIMITED
FILE REFERENCE: 3772-22 / N. 86130A JCI
CURRENT APPLICATION NUMBER: US/10/520.084
CURRENT FILING DATE: 2005-01-05
PRIOR APPLICATION NUMBER: PCT/GB03/002936
PRIOR FILING DATE: 2003-07-07
PRIOR APPLICATION NUMBER: GB 0215710.5
PRIOR FILING DATE: 2002-07-05
NUMBER OF SEQ ID NOS: 37
SOFTWARE: Patentin version 3.1
SEQ ID NO 37
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-10-520-084-37

Query Match 100.0%; Score 466; DB 5; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 60
DB 6 TDAATTAQBAAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAQAAVVRFOEAANKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 13
US-10-510-021-64
Sequence 64, Application US/10510021
Publication No. US20050220811A1

GENERAL INFORMATION:
APPLICANT: Cole, Stewart
APPLICANT: Pym, Alexander S
APPLICANT: Brosch, Roland
APPLICANT: Brodin, Priecille
APPLICANT: Majlessi, Laleh
APPLICANT: Demangel, Caroline
APPLICANT: Leclerc, Claude
TITLE OF INVENTION: Identification of virulence associated regions RD1 and
TITLE OF INVENTION: RDS leading to improve vaccine of M. bovis BCG and M.
FILE REFERENCE: D20217
CURRENT APPLICATION NUMBER: US/10/510.021

;; CURRENT FILING DATE: 2004-10-01
;; PRIOR APPLICATION NUMBER: PCT/IB03/01789
;; PRIOR FILING DATE: 2003-04-01
;; PRIOR APPLICATION NUMBER: EP 02/290864
;; PRIOR FILING DATE: 2002-04-05
;; NUMBER OF SEQ ID NOS: 75
;; SOFTWARE: Patentin Ver. 2.1
;; SEQ ID NO 64
;; LENGTH: 100
;; TYPE: PRT
;; ORGANISM: Mycobacterium tuberculosis
;; FEATURE:
;; OTHER INFORMATION: Rv3874-esxb - 10kDa culture filtrate antigen CFP10
US-10-510-021-64

Query Match 100.0%; Score 466; DB 5; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTOIDQVESTAGSIQGWGGAAGTAAGAAVVRFOEANKQ 60
Db 6 TDAATTAQEAAGNFERISGDLKTOIDQVESTAGSIQGWGGAAGTAAGAAVVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
Db 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 14
US-11-028-898-115
;; Sequence 115, Application US/11028898
;; Publication No. US20050136069A1
;; GENERAL INFORMATION:
;; APPLICANT: Reed, Steven G.
;; Skeiky, Yasir A.W.
;; Dillon, Davin C.
;; Campos-Neto, Antonio
;; Houghton, Raymond
;; Vedvick, Thomas S.
;; Twardzik, Daniel R.
;; Lodes, Michael J.
;; Hendrickson, Ronald C.
;; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
;; AND DIAGNOSIS OF TUBERCULOSIS
;; NUMBER OF SEQUENCES: 355
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: SEED and BERRY LLP
;; STREET: 6300 Columbia Center, 701 Fifth Avenue
;; CITY: Seattle
;; STATE: Washington
;; COUNTRY: USA
;; ZIP: 98104-7092
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/11/028,898
;; FILING DATE: 03-Jan-2005
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/10/084,843
;; FILING DATE: 03-Jan-2005
;; APPLICATION NUMBER: US/09/072,967
;; FILING DATE: 05-MAY-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Makl, David J.
;; REGISTRATION NUMBER: 31,392
;; REFERENCE/DOCKET NUMBER: 210121.411C9
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (206) 622-4900
;; TELEFAX: (206) 682-6031

;; INFORMATION FOR SEQ ID NO: 115:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 100 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <Unknown>
;; TOPOLOGY: linear
;; SEQUENCE DESCRIPTION: SEQ ID NO: 115:
US-11-028-898-115

Query Match 100.0%; Score 466; DB 6; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATTAQEAAGNFERISGDLKTOIDQVESTAGSIQGWGGAAGTAAGAAVVRFOEANKQ 60
Db 6 TDAATTAQEAAGNFERISGDLKTOIDQVESTAGSIQGWGGAAGTAAGAAVVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
Db 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 15
US-11-082-005-110
;; Sequence 110, Application US/11082005
;; Publication No. US20050181419A1
;; GENERAL INFORMATION:
;; APPLICANT: Reed, Steven G.
;; Skeiky, Yasir A.W.
;; Dillon, Davin C.
;; Campos-Neto, Antonia
;; Houghton, Raymond
;; Vedvick, Thomas S.
;; Twardzik, Daniel R.
;; Lodes, Michael J.
;; Hendrickson, Ronald C.
;; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
;; TUBERCULOSIS
;; NUMBER OF SEQUENCES: 350
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: SEED and BERRY LLP
;; STREET: 6300 Columbia Center, 701 Fifth Avenue
;; CITY: Seattle
;; STATE: Washington
;; COUNTRY: USA
;; ZIP: 98104-7092
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/11/082,005
;; FILING DATE: 15-Mar-2005
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/10/193,002
;; FILING DATE: 10-Jul-2002
;; APPLICATION NUMBER: US/09/072,596
;; FILING DATE: 05-MAY-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Makl, David J.
;; REGISTRATION NUMBER: 31,392
;; REFERENCE/DOCKET NUMBER: 210121.417C9
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (206) 622-4900
;; TELEFAX: (206) 682-6031
;; INFORMATION FOR SEQ ID NO: 110:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 100 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <Unknown>
;; TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 110:
US-11-082-005-110

Query Match 100.0%; Score 466; DB 6; Length 100;
Best Local Similarity 100.0%; Pred. No. 7.1e-42;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	TDATTLAQAAGNFERISGDLKTQIDQVESTAGSLQGQMRGAAGTAAQAQAAVVRFOEAANKQ	60
DB	6	TDATTLAQAAGNFERISGDLKTQIDQVESTAGSLQGQMRGAAGTAAQAQAAVVRFOEAANKQ	65
QY	61	KQELDEISTNIRQAGVOYSPRADEEQOALSSQMGF	95
DB	66	KQELDEISTNIRQAGVOYSPRADEEQOALSSQMGF	100

Search completed: February 3, 2006, 17:36:09
Job time : 22.0122 secs

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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 6.89856 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672a-10

Perfect score: 466
Sequence: 1 TDAATLAQAGNFERISGDL.....VOYRADEEQALSSQMGF 95

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_AA:*
1: /cgn2_6/ptodaca/1/iaa/5 COMB.pep:*
2: /cgn2_6/ptodaca/1/iaa/6 COMB.pep:*
3: /cgn2_6/ptodaca/1/iaa/H COMB.pep:*
4: /cgn2_6/ptodaca/1/iaa/PCTUS COMB.pep:*
5: /cgn2_6/ptodaca/1/iaa/RE COMB.pep:*
6: /cgn2_6/ptodaca/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	466	100.0	95	2 US-08-818-112-88	Sequence 88, App1
2	466	100.0	95	2 US-08-818-111-89	Sequence 89, App1
3	466	100.0	95	2 US-09-056-556-88	Sequence 88, App1
4	466	100.0	95	2 US-09-072-967-89	Sequence 89, App1
5	466	100.0	95	2 US-09-072-967-88	Sequence 88, App1
6	466	100.0	95	2 US-10-193-002-89	Sequence 89, App1
7	466	100.0	95	2 US-10-084-843-88	Sequence 88, App1
8	466	100.0	100	2 US-08-818-112-115	Sequence 115, App
9	466	100.0	100	2 US-08-818-111-110	Sequence 110, App
10	466	100.0	100	2 US-09-056-556-115	Sequence 115, App
11	466	100.0	100	2 US-09-072-967-110	Sequence 110, App
12	466	100.0	100	2 US-09-072-967-115	Sequence 115, App
13	466	100.0	100	2 US-10-193-002-110	Sequence 110, App
14	466	100.0	100	2 US-10-084-843-115	Sequence 115, App
15	466	100.0	358	2 US-09-287-849-8	Sequence 8, App1
16	466	100.0	802	2 US-09-056-556-214	Sequence 214, App
17	466	100.0	802	2 US-09-072-967-209	Sequence 209, App
18	466	100.0	802	2 US-09-072-967-346	Sequence 346, App
19	466	100.0	802	2 US-09-072-967-351	Sequence 351, App
20	466	100.0	802	2 US-09-072-967-351	Sequence 351, App
21	466	100.0	802	2 US-09-287-849-10	Sequence 10, App1
22	466	100.0	802	2 US-10-193-002-209	Sequence 209, App
23	466	100.0	802	2 US-10-193-002-346	Sequence 346, App
24	466	100.0	802	2 US-10-084-843-214	Sequence 214, App
25	466	100.0	802	2 US-10-084-843-351	Sequence 351, App
26	462	99.1	100	2 US-09-116-492A-5	Sequence 5, App1
27	392	84.1	80	2 US-08-818-112-117	Sequence 117, App

28	392	84.1	80	2 US-08-818-111-112	Sequence 112, App
29	392	84.1	80	2 US-09-056-556-117	Sequence 117, App
30	392	84.1	80	2 US-09-072-967-112	Sequence 112, App
31	392	84.1	80	2 US-09-072-967-117	Sequence 117, App
32	392	84.1	80	2 US-10-193-002-112	Sequence 112, App
33	392	84.1	80	2 US-10-084-843-117	Sequence 117, App
34	217	46.6	49	2 US-09-116-492A-6	Sequence 6, App1
35	205	44.0	42	2 US-09-116-492A-7	Sequence 7, App1
36	173	37.1	100	2 US-09-116-492A-28	Sequence 12, App1
37	137	29.4	28	2 US-09-116-492A-12	Sequence 12, App1
38	122	26.2	28	2 US-08-818-112-98	Sequence 98, App1
39	122	26.2	28	2 US-09-056-556-98	Sequence 98, App1
40	122	26.2	28	2 US-09-072-967-98	Sequence 98, App1
41	122	26.2	28	2 US-10-084-843-98	Sequence 98, App1
42	121	26.0	27	2 US-08-818-112-96	Sequence 96, App1
43	121	26.0	27	2 US-09-056-556-96	Sequence 96, App1
44	121	26.0	27	2 US-09-072-967-96	Sequence 96, App1
45	121	26.0	27	2 US-10-084-843-96	Sequence 96, App1

ALIGNMENTS

RESULT 1
US-08-818-112-88

; Sequence 88, Application US/08818112

; Patent No. 6290969

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skelky, Yasir A.W.

; APPLICANT: Dillon, Davin C.

; APPLICANT: Campos-Neto, Antonio

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedicik, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS

; NUMBER OF SEQUENCES: 153

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/818,112

; FILING DATE: 13-MAR-1997

; CLASSIFICATION: 424

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.411C6

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 88:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 95 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-818-112-88

; Query Match

; Best Local Similarity

; Matches 95; Conservative 0; Mismatches 0; Gaps 0;

100.0%; Score 466; DB 2; Length 95;
Pred. No. 3.5e-46;
Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAAQAAVVRFOEANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAAQAAVVRFOEANKQ 60
QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 2

US-08-818-111-89
; Sequence 89, Application US/08818111
; Patent No. 6338652
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,111
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 95 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-818-111-89

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAAQAAVVRFOEANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAAQAAVVRFOEANKQ 60
QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 3

US-09-056-556-88
; Sequence 88, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-Apr-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 88:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 95 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-056-556-88

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAAQAAVVRFOEANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGWGRGAAGTAAQAAVVRFOEANKQ 60
QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 4

US-09-072-596-89
; Sequence 89, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-89

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGMWGAAGTAQAQAAVVFQEAANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGMWGAAGTAQAQAAVVFQEAANKQ 60

QY 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 5
US-09-072-967-88
Sequence 88, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Veddzik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-88

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGMWGAAGTAQAQAAVVFQEAANKQ 60
DB 1 TDAATLAQEAENFERISGDKTQIDQVESTAGSLQGMWGAAGTAQAQAAVVFQEAANKQ 60

QY 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 61 KQELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95

RESULT 6
US-10-193-002-89
Sequence 89, Application US/10193002
Patent No. 6949246
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Veddzik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 89:

US-10-193-002-89

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 60
Db 1 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 60
Qy 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

RESULT 7

US-10-084-843-88
; Sequence 88, Application US/10084843
; Patent No. 6962710
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084, 843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072, 967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 88:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 95 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 88:
US-10-084-843-88

Query Match 100.0%; Score 466; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.5e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 60
Db 1 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Db 1 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 60

Qy 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
Db 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95

RESULT 8

US-08-818-112-115
; Sequence 115, Application US/08818112
; Patent No. 6290969
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,112
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 115:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-818-112-115

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 60
Db 6 TDAATTAQEAQGNFRISGDLKTQIDQVESTAGSLQCGWRGAAGTAQAQAAVVRFOEANKQ 65
Qy 61 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 95
Db 66 KOELDEISTNIRQAGVQVSRADDEEQOALSSQMGF 100

RESULT 9

US-08-818-111-110
; Sequence 110, Application US/08818111
; Patent No. 633852
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.

APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/06/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-818-111-110

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQAGNFERISGLTKTQIDQVESTAGSLQCGMGAAGTAQAQAVRFOEANKQ 60
DB 6 TDAATLAQAGNFERISGLTKTQIDQVESTAGSLQCGMGAAGTAQAQAVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQVSRADDEQQALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQALSSQMGF 100

RESULT 10
US-09-056-556-115
Sequence 115, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-056-556-115

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQAGNFERISGLTKTQIDQVESTAGSLQCGMGAAGTAQAQAVRFOEANKQ 60
DB 6 TDAATLAQAGNFERISGLTKTQIDQVESTAGSLQCGMGAAGTAQAQAVRFOEANKQ 65

QY 61 KOELDEISTNIRQAGVQVSRADDEQQALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQVSRADDEQQALSSQMGF 100

RESULT 11
US-09-072-596-110
Sequence 110, Application US/09072596
Patent No. 6458366
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:

LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-596-110

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 60
DB 6 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 12

US-09-072-967-115
Sequence 115, Application US/09072967
Patent No. 6592877

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-967-115

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 60
DB 6 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 65

DB 6 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 13
US-10-193-002-110
Sequence 110, Application US/10193002
Patent No. 6949246

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
US-10-193-002-110

Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 60
DB 6 TDAATLAQAGNFRISGDLKTQIDQVESTAGSLQCGMGAAGTAAGAAVVRFOEANKQ 65
QY 61 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVQYSRADEEQOALSSQMGF 100

RESULT 14

US-10-084-843-115
Sequence 115, Application US/10084843
Patent No. 6962710
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
TELECOMMUNICATION INFORMATION:
REFERENCE/DOCKET NUMBER: 210121.411C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 115:
US-10-084-843-115
Query Match 100.0%; Score 466; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.7e-46;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATTAQEAQGNFPERISGDLKTQIDQVESTAGSLQGGWRGAAGTAQAQAAVVRFOEAANKQ 60
DB 6 TDAATTAQEAQGNFPERISGDLKTQIDQVESTAGSLQGGWRGAAGTAQAQAAVVRFOEAANKQ 65
QY 61 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 95
DB 66 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 100
RESULT 15
US-09-287-849-8
Sequence 8, Application US/09287849
Patent No. 6627198
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
APPLICANT: Alderson, Mark

APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
TITLE OF INVENTION: and Their Uses
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287,849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 8
LENGTH: 358
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: bi-fusion
NAME/KEY: MOD RES
LOCATION: (25f)
OTHER INFORMATION: Xaa = any amino acid
US-09-287-849-8

Query Match 100.0%; Score 466; DB 2; Length 358;
Best Local Similarity 100.0%; Pred. No. 2e-45;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TDAATTAQEAQGNFPERISGDLKTQIDQVESTAGSLQGGWRGAAGTAQAQAAVVRFOEAANKQ 60
DB 264 TDAATTAQEAQGNFPERISGDLKTQIDQVESTAGSLQGGWRGAAGTAQAQAAVVRFOEAANKQ 323
QY 61 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 95
DB 324 KOELDEISTNIRQAGVOYSRADBEQQOALSSQMGF 358

Search completed: February 3, 2006, 17:02:24
Job time : 6.89856 secs

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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 66.2683 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672A-12

Perfect score: 1523
Sequence: 1 GDSFWAADQMGAFVIGAT.....RGPPAQLPGFEGGGRPKK 286

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_Main:*

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- 2: /cgn2_6/ptodaca/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/ptodaca/1/pubpaa/US09_PUBCOMB.pep:*
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- 6: /cgn2_6/ptodaca/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1520	99.8	286	3 US-09-886-349A-43	Sequence 43, Appl
2	1520	99.8	286	4 US-10-193-002-82	Sequence 82, Appl
3	1520	99.8	286	4 US-10-084-843-81	Sequence 81, Appl
4	1520	99.8	286	4 US-10-098-732A-43	Sequence 43, Appl
5	1520	99.8	286	6 US-11-028-898-81	Sequence 81, Appl
6	1520	99.8	286	6 US-11-082-005-82	Sequence 82, Appl
7	794	52.1	915	4 US-10-156-761-13329	Sequence 13329, A
8	722.5	47.4	923	6 US-11-073-550-22	Sequence 22, Appl
9	722.5	47.4	923	6 US-11-073-560-22	Sequence 22, Appl
10	698	45.8	904	3 US-09-738-626-5962	Sequence 5962, Ap
11	698	45.8	922	3 US-09-577-005-32	Sequence 32, Appl
12	698	45.8	922	3 US-09-577-005-34	Sequence 34, Appl
13	676	44.4	900	4 US-10-156-761-13547	Sequence 13547, A
14	648	42.5	277	4 US-10-781-014-92	Sequence 92, Appl
15	646	42.4	277	4 US-10-781-014-96	Sequence 96, Appl
16	544.5	35.8	887	5 US-10-893-671-4	Sequence 4, Appl
17	523.5	34.4	887	5 US-10-472-260-42	Sequence 42, Appl
18	247.5	16.3	187	5 US-10-472-260-40	Sequence 40, Appl
19	187	12.3	93	4 US-10-781-014-94	Sequence 94, Appl
20	187	12.3	93	4 US-10-781-014-178	Sequence 178, App
21	103	6.8	210	4 US-10-461-194-153	Sequence 153, App
22	103	6.8	278	4 US-10-425-115-368401	Sequence 368401,
23	102.5	6.7	372	4 US-10-369-493-18569	Sequence 18569, A
24	100	6.6	545	4 US-10-156-761-10930	Sequence 10930, A
25	99.5	6.5	6239	4 US-10-156-761-8477	Sequence 8477, Ap
26	99.5	6.5	6239	4 US-10-204-862A-5	Sequence 5, Appl
27	99.5	6.5	6239	6 US-11-005-196-4	Sequence 4, Appl

28	97	6.4	477	4 US-10-437-963-185891	Sequence 185891,
29	97	6.4	943	3 US-09-969-362-5	Sequence 5, Appl
30	96	6.3	6291	4 US-10-329-079-41	Sequence 41, Appl
31	95.5	6.3	886	5 US-10-719-993-799	Sequence 799, App
32	95.5	6.3	953	5 US-10-719-993-799	Sequence 796, App
33	95.5	6.3	19662	4 US-10-084-846A-6	Sequence 6, Appl
34	95	6.2	246	4 US-10-276-774-2466	Sequence 2466, Ap
35	95	6.2	403	5 US-10-732-923-10578	Sequence 10578, A
36	94.5	6.2	432	4 US-10-437-963-196368	Sequence 196368,
37	94	6.2	871	4 US-10-369-493-8059	Sequence 8059, Ap
38	93.5	6.1	400	4 US-10-369-493-9998	Sequence 9998, Ap
39	92.5	6.1	1332	4 US-10-437-963-195651	Sequence 195651,
40	92.5	6.1	852	3 US-09-812-350-6	Sequence 6, Appl
41	92.5	6.1	852	3 US-09-738-626-6999	Sequence 6999, Ap
42	92.5	6.1	852	5 US-10-732-923-6770	Sequence 6770, Ap
43	92	6.0	883	4 US-10-282-122A-49352	Sequence 49352, A
44	92	6.0	2595	4 US-10-329-079-7	Sequence 7, Appl
45	91.5	6.0	358	4 US-10-282-122A-48127	Sequence 48127, A

ALIGNMENTS

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RESULT 1
US-09-886-349A-43
Sequence 43, Application US/09886349A
Publication No. US20040086523A1
GENERAL INFORMATION:
APPLICANT: Skeiky, Yasir
APPLICANT: Reed, Steven
APPLICANT: Alderson, Mark
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
FILE REFERENCE: 014058-009070US
CURRENT APPLICATION NUMBER: US/09/886,349A
CURRENT FILING DATE: 2001-06-20
PRIOR APPLICATION NUMBER: US 09/597,796
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: US 60/265,737
PRIOR FILING DATE: 2001-02-01
NUMBER OF SEQ ID NOS: 50
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 43
LENGTH: 286
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURE:
FEATURE:
FEATURE:
FEATURE:
NAME/KEY: MOD_RES
LOCATION: (1)-(286)
OTHER INFORMATION: Xaa = any amino acid
US-09-886-349A-43

Query Match          99.8%; Score 1520; DB 3; Length 286;
Best Local Similarity 100.0%; Pred. No. 1.7e-145;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1 GDSFWAADQMGAFVIGATGRTTLTGEGLQHADGSLLDATNPVAVYDPAFAYBIG 60
QY      61 YIKESGIAKRCGKGPENIFFYITVYNEPVYOPPEKPFDEGVTGGLYRTHAAIEQRTNK 120
DB      61 YIKESGIAKRCGKGPENIFFYITVYNEPVYOPPEKPFDEGVTGGLYRTHAAIEQRTNK 120
QY      121 XQIIASGVAMPALIRAAQMLAEWDVADVAVSVTSWGLNRDGVVITETKLRHDPAGV 180
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QY      181 PYVTRALENARGPIVANSDDMKRAVPEDIRPWPCTYTLTGTGSGESDTPAGGRVYNTD 240
DB      181 PYVTRALENARGPIVANSDDMKRAVPEDIRPWPCTYTLTGTGSGESDTPAGGRVYNTD 240
QY      240 PYVTRALENARGPIVANSDDMKRAVPEDIRPWPCTYTLTGTGSGESDTPAGGRVYNTD 240
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QY	122	XQLLAGVAMPALRAQMLAAEMVADVSVTSGELNDGYIETKLRHDPBAGV	180
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Db	181	PYTRALENARGVIVASDMRAVPEQRLPWPVGTLYLTGTDGFGFSQTRPAGRRYENTD	240
QY	181	PYTRALENARGVIVASDMRAVPEQRLPWPVGTLYLTGTDGFGFSQTRPAGRRYENTD	240
Db	181	PYTRALENARGVIVASDMRAVPEQRLPWPVGTLYLTGTDGFGFSQTRPAGRRYENTD	240
QY	241	AESQVGRGFGRGWGRARRVINDPFGAGRGCPALPQFDGCGGLRPXK	286
QY	241	AESQVGRGFGRGWGRARRVINDPFGAGRGCPALPQFDGCGGLRPXK	286
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RESULT 4
US-10-098-732A-43
/ Sequence 43, Application US/10098732A
/ Publication No. US20030175294A1
/ GENERAL INFORMATION:
/ APPLICANT: Skelky, Yasir
/ APPLICANT: Brannon, Mark
/ APPLICANT: Guderian, Jeffrey
/ APPLICANT: Corixa Corporation
/ TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
/ TITLE OF INVENTION: Leishmania Antigen
/ FILE REFERENCE: 014058-012010US
/ CURRENT APPLICATION NUMBER: US/10/098,732A
/ CURRENT FILING DATE: 2003-04-29
/ PRIOR APPLICATION NUMBER: US 60/275,837
/ PRIOR FILING DATE: 2001-03-13
/ NUMBER OF SEQ ID NOS: 80
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 43
/ LENGTH: 286
/ TYPE: PR1
/ ORGANISM: Mycobacterium tuberculosis
/ FEATURE:
/ OTHER INFORMATION: Tbh4
/ NAME/KEY: MOD_RES
/ LOCATION: (1)-(286)
/ OTHER INFORMATION: Xaa = any amino acid
US-10-098-732A-43

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Query Match	99.8%;	Score 1520;	DB 4;	Length 286;
Best Local Similarity	100.0%;	Pred. No. 1.7e-145;		
Matches 286;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
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Dh	1	GDSFWAADAQWARGFVIGATAGRTTLTGEGLQHDGHSLLDADINPAVAVDPAFAVEIG	60	
Qy	61	YIASSGLARMGGENPENIFFYITTYNEHYVPPPEPENDEPGUIGIYRYHAATEQRNKK	120	
Dh	61	YIASSGLARMGGENPENIFFYITTYNEHYVPPPEPENDEPGVIGGIYRYHAATEQRNKK	120	
Qy	121	XQIIASGVAMPDALRAAQMLAEMDVADVSVTSWGBLNDGVYIETEKLRHPPRPAGV	180	
Dh	121	XQIIASGVAMPDALRAAQMLAEMDVADVSVTSWGBLNDGVYIETEKLRHPPRPAGV	180	
Qy	181	PYVTRALENARGPIAVSDMKRAVPEQIRPVPGTLYLTGTDGFGFSDTRPAGRRYFNTD	240	
Dh	181	PYVTRALENARGPIAVSDMKRAVPEQIRPVPGTLYLTGTDGFGFSDTRPAGRRYFNTD	240	
Qy	241	AESQVGRGFGRGVGRRVNIDPFGAGRGPAPQLFGFDEGGGLRPXK	286	
Dh	241	AESQVGRGFGRGVGRRVNIDPFGAGRGPAPQLFGFDEGGGLRPXK	286	

RESULT 5
 US-11-028-898-81
 Sequence 81, Application US/11028898
 Publication No. US20050136069A1

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1 GENERAL INFORMATION:
2
3 APPLICANT: Reed, Steven G.
4           Skelky, Yasir A.W.
5           Dillon, Davin C.
6           Campos-Neto, Antonio
7           Houghton, Raymond
8           Vedvick, Thomas S.
9           Twardzik, Daniel R.
10          Lodes, Michael J.
11          Hendrickson, Ronald C.
12
13 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
14                      AND DIAGNOSIS OF TUBERCULOSIS
15
16 NUMBER OF SEQUENCES: 355
17 CORRESPONDENCE ADDRESS:
18
19 ADDRESSEE: SEED and BERRY LLP
20 STREET: 6300 Columbia Center, 701 Fifth Avenue
21 CITY: Seattle
22 STATE: Washington
23 COUNTRY: USA
24 ZIP: 98104-7092
25
26 COMPUTER READABLE FORM:
27 MEDIUM TYPE: Floppy disk
28 COMPUTER: IBM PC compatible
29 OPERATING SYSTEM: PC-DOS/MS-DOS
30 SOFTWARE: Patent In Release #1.0, Version #1.30
31
32 CURRENT APPLICATION DATA:
33 APPLICATION NUMBER: US/11/028,898
34 FILING DATE: 03-Jan-2005
35 CLASSIFICATION: <Unknown>
36
37 PRIOR APPLICATION DATA:
38 APPLICATION NUMBER: US/10/084,843
39 FILING DATE: 03-Jan-2005
40 APPLICATION NUMBER: US/09/072,967
41 FILING DATE: 05-MAY-1998
42
43 ATTORNEY/AGENT INFORMATION:
44 NAME: Maki, David J.
45 REGISTRATION NUMBER: 31,392
46 REFERENCE/DOCKET NUMBER: 210121.411C9
47
48 TELECOMMUNICATION INFORMATION:
49 TELEPHONE: (206) 622-4900
50 TELEFAX: (206) 682-6031
51
52 INFORMATION FOR SEQ ID NO: 81:
53 SEQUENCE CHARACTERISTICS:
54     LENGTH: 286 amino acids
55     TYPE: amino acid
56     STRANDEDNESS: single
57     TOPOLOGY: linear
58
59 SEQUENCE DESCRIPTION: SEQ ID NO: 81:
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	Query Match	99.8%;	Score 1520;	DB 620;	Length 286;
	Best Local Similarity	100.0%;	Pred. No. 1,7e-145;		
	Matches 286;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
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Db	1	GDSEFAAADOMARGFVIGATAGRTTLTGBGLQHADGSHLLIDATNPVAVADPAFAAIEIG	60		
QY	61	YIXESGLARMCGENPENIFFYITFVNEPYPQPPENPFDEGVGGIYRHYAAATEORTNK	120		
Db	61	YIXESGLARMCGENPENIFFYITVNEPYPQPPENPFDEGVGGIYRHYAAATEORTNK	120		
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QY	181	PYTRALENARGEVIAVSDMMRAVPEQIRPMVNGTYLTLDGDFGSFSDTRPAGRRYENTD	240		
Db	181	PYTRALENARGEVIAVSDMMRAVPEQIRPMVNGTYLTLDGDFGSFSDTRPAGRRYENTD	240		
QY	241	AESEQVGRGFRGMPGRRVNIIDPGAGNGPPAOLPGPEGGGLRRXK	286		
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RESULT 6
US-11-082-005-82
; Sequence 82, Application US/11082005
; Publication No. US20050181419A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
;           Skeiky, Yaelir A.W.
;           Dillon, David C.
;           Campos-Neto, Antonia
;           Houghton, Raymond
;           Vedvick, Thomas S.
;           Twardzik, Daniel R.
;           Lodes, Michael J.
;           Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/082.005
; FILING DATE: 15-Mar-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/193.002
; FILING DATE: 10-Jul-2002
; APPLICATION NUMBER: US/09/072.596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-11-082-005-82

Query Match          99.8%; Score 1520; DB 6; Length 286;
Best Local Similarity 100.0%; Pred. No. 1.7e-145;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFMAADQMARGFVLTAGRTTLTGBGLQHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLTAGRTTLTGBGLQHADGSHLLDATTNPVAVYDPAFAVEIG 60
QY 61 YIESGLARMCGENPEPIFYITVYNEPVYQPPPEPNFDEBVGIGIYRYHAATEQRNTK 120
DB 61 YIESGLARMCGENPEPIFYITVYNEPVYQPPPEPNFDEBVGIGIYRYHAATEQRNTK 120
QY 121 XQIIASGVAMPALRAAQMILAEMDVADVSVTSMGELNRDGVVIEETKLRHPRPAGV 180
DB 121 XQIIASGVAMPALRAAQMILAEMDVADVSVTSMGELNRDGVVIEETKLRHPRPAGV 180
QY 181 PYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYTLTGDTGFGFSDTRPAGRRYNTD 240
DB 181 PYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYTLTGDTGFGFSDTRPAGRRYNTD 240
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RESULT 7
US-10-156-761-13329
; Sequence 13329, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156.761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 13329
; LENGTH: 915
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-13329

Query Match          52.1%; Score 794; DB 4; Length 915;
Best Local Similarity 61.6%; Pred. No. 4.4e-71;
Matches 154; Conservative 30; Mismatches 60; Indels 6; Gaps 3;

QY 1 GDSFMAADQMARGFVLTAGRTTLTGBGLQHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 625 GDSFMAADQMARGFVLTAGRTTLTGBGLQHADGSHLLDATTNPVAVYDPAFAVEIG 684
QY 61 YIESGLARMC--ENP--ENIFPYITVYNEPVYQPPPEPNFDEBVGIGIYRYHAATE 115
DB 685 HIYQDGLRRMYGSSEEPHGEDVFFYITVYNEBIOHPAEFENVDEGLNGIRFSGT- 743
QY 116 QRTNKXQIIASGVAMPALRAAQMILAEMDVADVSVTSMGELNRDGVVIEETKLRHPD 175
DB 744 AGSIPAOIISGVAVPAVAQAQILAEENVKADVMSATSMNLRRAVEVERHNLLHPE 803
QY 176 RPAQVPYVTRALENARGVIAVSDMMRAVPEQIRPWVPGTYTLTGDTGFGFSDTRPAGRR 235
DB 804 EQGRVFPVTKLSAEGPFVAADVSDMMRSVPDQISRWWPGTYGSLGADGFGFADTRGARR 863
QY 236 YENTDAESQY 245
DB 864 FFHIDAQSIY 873

RESULT 8
US-11-073-550-22
; Sequence 22, Application US/11073550
; Publication No. US20050176127A1
; GENERAL INFORMATION:
; APPLICANT: HIRANO, SEIKO
; APPLICANT: KIMURA, EICHIRO
; APPLICANT: OSUMI, TSUYOSHI
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: KAWAHARA, YOSHIO
; APPLICANT: NONAKA, GEN
; APPLICANT: MATSUZAKI, YUMI
; APPLICANT: AKIYOSHI, NAOKI
```

APPLICANT: NAKAMURA, KANAE
APPLICANT: KURAHASHI, OSAMU
APPLICANT: NAKAMATSU, TSUYOSHI
APPLICANT: SUGIMOTO, SHINICHI
TITLE OF INVENTION: GENES FOR HEAT RESISTANT ENZYMES OF AMINO ACID BIOSYNTHETIC PATHWAY
FILE REFERENCE: 221519USO PCT
CURRENT APPLICATION NUMBER: US/11/073,550
CURRENT FILING DATE: 2005-03-08
PRIOR APPLICATION NUMBER: US/10/089,057
PRIOR FILING DATE: 2002-04-03
PRIOR APPLICATION NUMBER: PCT/JP00/06913
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: JP 11-282716
PRIOR FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: JP 11-311147
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: JP 2000-120687
PRIOR FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 108
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 923
TYPE: PRT
ORGANISM: Corynebacterium thermoaminogenes
US-11-073-550-22

Query Match 47.4%; Score 722.5; DB 6; Length 923;
Best Local Similarity 56.9%; Pred. No. 8,1e-64;

Matches 140; Conservative 30; Mismatches 75; Indels 1; Gaps 1;

QY 1 GDSFWAADQMGAGFVLGATGRTTLTGEGLOHADGSHLLDNTNPAVVAIDPAFAVEIG 60
DB 636 GDSFWAADQMGAGFVLGATGRTTLTGEGLOHADGSHLLDNTNPAVVAIDPAFAVEIG 695
QY 61 YXESGLARMCENP-ENIFFYITVNEPYVOPPEPNFDEGVLGSIYRYHATEQRTN 119
DB 696 HLVHRGIDRMVYGPCKGENVLYLTINEPTPPQPAPEPDLVDEGLHKGIYLYDKAAEGEGH 755
QY 120 KXOILASGVAMPALRAQMLAEWDVAADVSVTSNGELNRDGVVETETKLRHPDRPAG 179
DB 756 EASIIASGICMOWALRARDILADYGRIRANIFATSVVELARPGARNLEALRPGADVG 815
QY 180 VPVYTALENARGPVLAIVSDMRAVPEQIRPWYPTGTYLTGTGFGSGSDTRPARRRYNT 239
DB 816 EAVFTYTLKKGSGPYVAVSDPATDLPWQIREWPGDYIVLGADGFGSDTRPARRRYNT 875
QY 240 DAESQV 245
DB 876 DAESIV 881

RESULT 9

US-11-073-560-22
Sequence 22, Application US/11073560
Publication No. US20050239176A1
GENERAL INFORMATION:
APPLICANT: HIRANO, SEIKO
APPLICANT: NONAKA, GEN
APPLICANT: MATSUZAKI, YUMI
APPLICANT: AKIYOSHI, NAOKI
APPLICANT: NAKAMURA, KANAE
APPLICANT: KIMURA, EICHIRO
APPLICANT: OSUMI, TSUYOSHI
APPLICANT: MATSUI, KAZUHIKO
APPLICANT: KAWAHASHI, YOSHIO
APPLICANT: KURAHASHI, OSAMU
APPLICANT: NAKAMATSU, TSUYOSHI
APPLICANT: SUGIMOTO, SHINICHI
TITLE OF INVENTION: GENES FOR HEAT RESISTANT ENZYMES OF AMINO ACID BIOSYNTHETIC PATHWAY
FILE REFERENCE: 221519USO PCT
CURRENT APPLICATION NUMBER: US/11/073,560

CURRENT FILING DATE: 2005-03-08
PRIOR APPLICATION NUMBER: US/10/089,057
PRIOR FILING DATE: 2002-04-03
PRIOR APPLICATION NUMBER: PCT/JP00/6913
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: JP11-282716
PRIOR FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: JP11-311147
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: JP 2000-120687
PRIOR FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 129
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 923
TYPE: PRT
ORGANISM: Corynebacterium thermoaminogenes
US-11-073-560-22

Query Match 47.4%; Score 722.5; DB 6; Length 923;
Best Local Similarity 56.9%; Pred. No. 8,1e-64;

Matches 140; Conservative 30; Mismatches 75; Indels 1; Gaps 1;

QY 1 GDSFWAADQMGAGFVLGATGRTTLTGEGLOHADGSHLLDNTNPAVVAIDPAFAVEIG 60
DB 636 GDSFWAADQMGAGFVLGATGRTTLTGEGLOHADGSHLLDNTNPAVVAIDPAFAVEIG 695
QY 61 YXESGLARMCENP-ENIFFYITVNEPYVOPPEPNFDEGVLGSIYRYHATEQRTN 119
DB 696 HLVHRGIDRMVYGPCKGENVLYLTINEPTPPQPAPEPDLVDEGLHKGIYLYDKAAEGEGH 755
QY 120 KXOILASGVAMPALRAQMLAEWDVAADVSVTSNGELNRDGVVETETKLRHPDRPAG 179
DB 756 EASIIASGICMOWALRARDILADYGRIRANIFATSVVELARPGARNLEALRPGADVG 815
QY 180 VPVYTALENARGPVLAIVSDMRAVPEQIRPWYPTGTYLTGTGFGSGSDTRPARRRYNT 239
DB 816 EAVFTYTLKKGSGPYVAVSDPATDLPWQIREWPGDYIVLGADGFGSDTRPARRRYNT 875
QY 240 DAESQV 245
DB 876 DAESIV 881

RESULT 10

US-09-738-626-5962
Sequence 5962, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OKAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 5962
LENGTH: 904

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; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-5962

Query Match      45.8%; Score 698; DB 3; Length 904;
Best Local Similarity 56.9%; Pred. No. 2.4e-61;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADQMARGFVLGATAGRTTTLTGEGLQHADGHSLLLDATNPVAVYDPAFAVEIG 60
DB GDSIWAADQMARGFLLGATAGRTTTLTGEGLQHMDDGHSPLYASTNEGEVETYDPSFAVEIA 677
QY 61 YIYESGLARMCENP-ENIFFYITVYNEPVPVOPPEPNPDEGVLGSIYRYHAATEORTN 119
DB 678 HLHVRGIDRMVGGKGGEDVYITITINEPTPOPAEPGLDVEGLHKGIYLY-SRGGSTGH 736
QY 120 KXOIIASGVAMPALRAQOMLAEMDVAADVMSVTSWGEINRDGVVIEEKLHPDRPAG 179
DB 737 EANITLASGVOMALKAASILEADYGVRAIYATSISWNLARQGAANKAQLNPGADAG 796
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTLGTGDFGFSPTRPAGRRYFNT 239
DB 797 EAFVTTQLKQTSQBYVAVSDPSTDLPNQIREWVGDTYVLGADGFGSPTRPAPARRFENI 856
QY 240 DAEQV 245
DB 857 DAEISIV 862

RESULT 11
US-09-577-005-32
; Sequence 32, Application US/09577005
; Publication No. US20040002143A1
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EIICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, AN
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AM
; TITLE OF INVENTION: PRODUCING BACTERIAL STRAINS
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; CURRENT FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Brevibacterium lactofermentum ATCC13869
US-09-577-005-32

Query Match      45.8%; Score 698; DB 3; Length 922;
Best Local Similarity 56.9%; Pred. No. 2.5e-61;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADQMARGFVLGATAGRTTTLTGEGLQHADGHSLLLDATNPVAVYDPAFAVEIG 60
DB GDSIWAADQMARGFLLGATAGRTTTLTGEGLQHMDDGHSPLYASTNEGEVETYDPSFAVEIA 695
QY 61 YIYESGLARMCENP-ENIFFYITVYNEPVPVOPPEPNPDEGVLGSIYRYHAATEORTN 119
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DB 696 HLHVRGIDRMVGGKGGEDVYITITINEPTPOPAEPGLDVEGLHKGIYLY-SRGGSTGH 754
QY 120 KXOIIASGVAMPALRAQOMLAEMDVAADVMSVTSWGEINRDGVVIEEKLHPDRPAG 179
DB 755 EANITLASGVOMALKAASILEADYGVRAIYATSISWNLARQGAANKAQLNPGADAG 814
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTLGTGDFGFSPTRPAGRRYFNT 239
DB 815 EAFVTTQLKQTSQBYVAVSDPSTDLPNQIREWVGDTYVLGADGFGSPTRPAPARRFENI 874
QY 240 DAEQV 245
DB 875 DAEISIV 880

RESULT 12
US-09-577-005-34
; Sequence 34, Application US/09577005
; Publication No. US20040002143A1
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EIICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, ANI
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AMI
; TITLE OF INVENTION: PRODUCING BACTERIAL STRAINS
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; CURRENT FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 922
; TYPE: PRT
; ORGANISM: Brevibacterium lactofermentum ATCC13869
US-09-577-005-34

Query Match      45.8%; Score 698; DB 3; Length 922;
Best Local Similarity 56.9%; Pred. No. 2.5e-61;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADQMARGFVLGATAGRTTTLTGEGLQHADGHSLLLDATNPVAVYDPAFAVEIG 60
DB GDSIWAADQMARGFLLGATAGRTTTLTGEGLQHMDDGHSPLYASTNEGEVETYDPSFAVEIA 695
QY 61 YIYESGLARMCENP-ENIFFYITVYNEPVPVOPPEPNPDEGVLGSIYRYHAATEORTN 119
DB 696 HLHVRGIDRMVGGKGGEDVYITITINEPTPOPAEPGLDVEGLHKGIYLY-SRGGSTGH 754
QY 120 KXOIIASGVAMPALRAQOMLAEMDVAADVMSVTSWGEINRDGVVIEEKLHPDRPAG 179
DB 755 EANITLASGVOMALKAASILEADYGVRAIYATSISWNLARQGAANKAQLNPGADAG 814
QY 180 VPVYTRALENARGPVIAVSDMRAVPEQIRPWVPGTYLTLGTGDFGFSPTRPAGRRYFNT 239
DB 815 EAFVTTQLKQTSQBYVAVSDPSTDLPNQIREWVGDTYVLGADGFGSPTRPAPARRFENI 874
QY 240 DAEQV 245
DB 875 DAEISIV 880
```

Db 875 DAESIV 880

RESULT 13

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US-10-156-761-13547
; Sequence 13547, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 13547
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Streptomyces avermectinilis
US-10-156-761-13547
```

```
Query Match 44.4%; Score 676; DB 4; Length 900;
Best Local Similarity 53.3%; Pred. No. 4,le-59;
Matches 136; Conservative 32; Mismatches 73; Indels 14; Gaps 4;
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```
QY 2 DSEFAADQMARCVLTATGRTTLTGBGLQHADGSHLLDNTNPAVAVDPAFAVEIGY 61
DB 622 DQWQQLDQGRGLVATGRTTLTGBGLQHADGSHLLDNTNPAVAVDPAFAVEIAV 681
QY 62 IXESGLARMGCE---NPENFYITVYNEPVYQPEPENPD-PEGVLGGYRHAATE- 115
DB 682 IXDGLRMRGGEAAPGSDPNVFFYLLTVYNEVPQAPAPAGIGIDEGIVKGLYRNTESA 741
QY 116 -----QRTNKQIILASGVAMPALRAAOMLAEMVDVADVSVTSWGLNRDGVIEFEK 170
DB 742 DLSPAAAPRIQLIGSGTAIHWTQAQRLAEEGVADVSAISWELRDLAAL 801
QY 171 LRHPDRPAGVYVTRALENAGPVIAVSDMRAVPEQIRPWPGTYLLTGDFGFSQDTR 230
DB 802 LRGBER---VPFYQALHGABGVPLAVSDVMRQVDPQIAQWVEDQDYSLSLGDGFLSDTR 858
QY 231 PAGRRTYNTDAESQV 245
DB 859 DAARRHGVDAESIV 873
```

RESULT 14

```
US-10-781-014-92
; Sequence 92, Application US/10781014
; Publication No. US20040180408A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroeger, Burkhard
; APPLICANT: Schröder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberbauer, Gregor
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; FILE REFERENCE: BGI-126CPCN
; CURRENT APPLICATION NUMBER: US/10/781,014
; CURRENT FILING DATE: 2004-02-17
; PRIOR APPLICATION NUMBER: US 09/602,740
; PRIOR FILING DATE: 2000-06-23
```

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;; PRIOR APPLICATION NUMBER: 60/141,031
;; PRIOR FILING DATE: 1999-06-25
;; PRIOR APPLICATION NUMBER: 60/143,208
;; PRIOR FILING DATE: 1999-07-09
;; PRIOR APPLICATION NUMBER: 60/151,572
;; PRIOR FILING DATE: 1999-08-31
;; PRIOR APPLICATION NUMBER: DE 19931412.8
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931413.6
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931419.5
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931420.9
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931424.1
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931428.4
;; PRIOR FILING DATE: 1999-07-08
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 784
;; SEQ ID NO 92
;; LENGTH: 277
;; TYPE: PRT
;; ORGANISM: Corynebacterium glutamicum
US-10-781-014-92
```

```
Query Match 42.5%; Score 648; DB 4; Length 277;
Best Local Similarity 55.5%; Pred. No. 5,8e-57;
Matches 131; Conservative 30; Mismatches 73; Indels 2; Gaps 2;
```

```
QY 11 MARGFVLGATGATGRTTLTGBGLQHADGSHLLDNTNPAVAVDPAFAVEIGYXESGLARM 70
DB 1 MARGFVLGATGATGRTTLTGBGLQHADGSHLLDNTNPAVAVDPAFAVEIGYXESGLARM 60
QY 71 CGENP-ENIFFYITVYNEPVYQPEPENPD-PEGVLGGYRHAATEBQRTNKQIILASGVA 129
DB 61 YGSGKGEDEVYIYITVYNEVPQAPAPAGIGIDEGIVKGLYRNTESA 119
QY 130 MPALRAAOMLAEMVDVADVSVTSWGLNRDGVIEFEKLRHPDRPAGVYVTRALEN 189
DB 120 MOWMLKAASTLEADYGRANIVSATSWNLARDGAARNAKQILNPGADAGEAFVTLQKQ 179
QY 190 ARGVIAVSDMRAVPEQIRPWPGTYLLTGDFGFSQDTRPAGRRTYNTDAESQV 245
DB 180 TSGPYAVSDPSTDLNQLIREWVPGDYTVLGAIDGFGSDTRPARRRFFNIDAESIV 235
```

RESULT 15

```
US-10-781-014-96
; Sequence 96, Application US/10781014
; Publication No. US20040180408A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroeger, Burkhard
; APPLICANT: Schröder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberbauer, Gregor
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; TITLE OF INVENTION: INVOLVED IN CARBON METABOLISM AND ENERGY
; FILE REFERENCE: BGI-126CPCN
; CURRENT APPLICATION NUMBER: US/10/781,014
; CURRENT FILING DATE: 2004-02-17
; PRIOR APPLICATION NUMBER: US 09/602,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/143,208
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: 60/151,572
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19931412.8
; PRIOR FILING DATE: 1999-07-08
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; PRIOR APPLICATION NUMBER: DE 19931413.6
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931424.1
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931428.4
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 784
; SEQ ID NO 96
; LENGTH: 277
; TYPE: prt
; ORGANISM: Corynebacterium glutamicum
; US-10-781-014-96
```

```
Query Match 42.4%; Score 646; DB 4; Length 277;
Best Local Similarity 55.5%; Pred. No. 9.2e-57;
Matches 131; Conservative 29; Mismatches 74; Indels 2; Gaps 2;
```

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QY 11 MARGFVLGATAGRTTGTGEGHQADGSHLLDATNPVAVYDPAFAVEIGIYESGLARM 70
Db 1 MARGFPLGATAGRTTGTGEGHQMDGHSPLVASTNEGVETYPDFAFETIAHLVHKGIDRM 60
QY 71 CGENP-ENIFFYITVYNEPYPVQPEPEPNDPEGVLGGIYRYHAATEQRTNKQIILASGVA 129
Db 61 YGPGKGEDVLYYITLYNEPTQPAPPEPEGLDVEGLHKGIYLY-SRGEGTGHEANILASGVG 119
QY 130 MPAAALRAAQMALAEWDVAADVWSTSGEELNRDGVVETEKLRHPDRPAGVPYTRALEN 169
Db 120 MQMALKAASLTLEADYGVANIVSATSWVNLARDGAAARNKAQLRNPGADAGBAFVTTQLKQ 179
QY 190 ARGPVIAVSDMRAVPEQIRPWVPGTYLTGTDGFGFSDTRPAGRRYFNTDAESOV 245
Db 180 TSGPYAVSDPFSFDLPWQIRKWPVGDYTVLGADGFGFSDTRPARRRFNIDAESIV 235
```

Search completed: February 3, 2006, 17:36:10
Job time: 67.2683 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 20.7683 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672a-12
Perfect score: 1523
Sequence: 1 GGSFMAADQMAKGFVLGAT.....RGPPAQLPGFEGSGLRPKX 286

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5.COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6.COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H.COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCUS.COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE.COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backtitles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1520	99.8	286	2 US-08-818-112-81	Sequence 81, Appl
2	1520	99.8	286	2 US-08-818-111-82	Sequence 82, Appl
3	1520	99.8	286	2 US-09-056-556-81	Sequence 81, Appl
4	1520	99.8	286	2 US-09-072-596-82	Sequence 82, Appl
5	1520	99.8	286	2 US-09-072-967-81	Sequence 81, Appl
6	1520	99.8	286	2 US-10-193-002-82	Sequence 82, Appl
7	1520	99.8	286	2 US-10-084-843-81	Sequence 81, Appl
8	698	45.8	922	2 US-09-577-005-32	Sequence 32, Appl
9	698	45.8	922	2 US-09-577-005-34	Sequence 34, Appl
10	546.5	35.9	887	1 US-09-489-039A-12282	Sequence 12282, A
11	544.5	35.8	887	1 US-08-215-709-1	Sequence 1, Appl
12	541.5	35.6	925	2 US-09-540-236-3586	Sequence 3586, Ap
13	540.5	35.5	897	2 US-09-543-681A-4915	Sequence 4915, Ap
14	539.5	35.4	922	2 US-09-252-991A-32759	Sequence 32759, A
15	509	33.4	906	2 US-09-328-352-6037	Sequence 6037, Ap
16	100.5	6.6	363	2 US-09-902-540-10626	Sequence 10626, A
17	100.5	6.6	686	2 US-09-252-991A-21221	Sequence 21221, A
18	99.5	6.5	6239	2 US-09-914-286-4	Sequence 4, Appl
19	98.5	6.5	580	2 US-09-252-991A-20407	Sequence 20407, A
20	97	6.4	943	2 US-09-397-885-5	Sequence 5, Appl
21	97	6.4	943	2 US-09-969-362-5	Sequence 5, Appl
22	94	6.2	548	2 US-09-902-540-12604	Sequence 12604, A
23	92	6.0	348	2 US-09-248-528-7	Sequence 7, Appl
24	92	6.0	348	2 US-09-549-108-7	Sequence 7, Appl
25	92	6.0	348	2 US-09-549-111-7	Sequence 7, Appl
26	92	6.0	348	2 US-09-549-106-7	Sequence 7, Appl
27	92	6.0	348	2 US-09-550-394-7	Sequence 7, Appl

28	91	6.0	400	2 US-09-489-039A-7483	Sequence 7483, Ap
29	91	6.0	988	2 US-09-252-991A-28639	Sequence 28639, A
30	91	6.0	1218	2 US-09-477-962-100	Sequence 100, App
31	90.5	5.9	395	2 US-09-252-991A-26116	Sequence 26116, A
32	90.5	5.9	811	2 US-09-902-540-15368	Sequence 15368, A
33	90.5	5.9	2517	2 US-09-902-540-15380	Sequence 15380, A
34	89.5	5.9	3972	2 US-09-914-286-3	Sequence 3, Appl
35	89	5.8	372	2 US-09-413-814-69	Sequence 69, Appl
36	89	5.8	514	2 US-09-252-991A-25281	Sequence 25281, A
37	89	5.8	651	2 US-09-902-540-11752	Sequence 11752, A
38	88.5	5.8	581	2 US-09-107-532A-6835	Sequence 6835, Ap
39	87.5	5.7	385	2 US-09-252-991A-33065	Sequence 33065, A
40	87.5	5.7	574	2 US-09-252-991A-33065	Sequence 33065, A
41	87.5	5.7	6396	2 US-09-410-5518-72	Sequence 72, Appl
42	87.5	5.7	6396	2 US-09-940-3168-72	Sequence 72, Appl
43	86.5	5.7	456	2 US-09-252-991A-17335	Sequence 17335, A
44	86.5	5.7	482	2 US-09-252-991A-28339	Sequence 28339, A
45	86	5.6	4472	1 US-08-804-227C-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-818-112-81
Sequence 81, Application US/08818112
Patent No. 6290969
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedrick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818, 112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Mark, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.41106
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 81:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-112-81
Query Match 99.8%, Score 1520, DB 2, Length 286,
Best Local Similarity 100.0%, Pred. No. 2.3e-154, Indels 0, Gaps 0,
Matches 286, Conservative 0, Mismatches 0

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGSGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGSGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
QY 61 YIYESGLARMCNENPFYITVYNEPYQPPPEPFDEGVIGIYRYHAATEQRTNK 120
DB 61 YIYESGLARMCNENPFYITVYNEPYQPPPEPFDEGVIGIYRYHAATEQRTNK 120
QY 121 XQILASGVAMPALRAAOMLAEMDVADYVSTSGELNRDGVLETETKLHPDRPAGV 180
DB 121 XQILASGVAMPALRAAOMLAEMDVADYVSTSGELNRDGVLETETKLHPDRPAGV 180
QY 181 PYTRLALENARGVIAVSDMRAVPEQIRPWPBGTYLLTGDFGFSDBTRPAGRRYNTD 240
DB 181 PYTRLALENARGVIAVSDMRAVPEQIRPWPBGTYLLTGDFGFSDBTRPAGRRYNTD 240
QY 241 AESQVGRGFRGWRPVNIDPFGAGRGPAPOLPGFDEGGGLRPXK 286
DB 241 AESQVGRGFRGWRPVNIDPFGAGRGPAPOLPGFDEGGGLRPXK 286

RESULT 2

US-08-818-111-82
Sequence 82, Application US/08818111
Patent No. 633852
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-111-82

Query Match

Best Local Similarity 99.8%; Score 1520; DB 2; Length 286;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGSGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGSGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60

QY 61 YIYESGLARMCNENPFYITVYNEPYQPPPEPFDEGVIGIYRYHAATEQRTNK 120
DB 61 YIYESGLARMCNENPFYITVYNEPYQPPPEPFDEGVIGIYRYHAATEQRTNK 120
QY 121 XQILASGVAMPALRAAOMLAEMDVADYVSTSGELNRDGVLETETKLHPDRPAGV 180
DB 121 XQILASGVAMPALRAAOMLAEMDVADYVSTSGELNRDGVLETETKLHPDRPAGV 180
QY 181 PYTRLALENARGVIAVSDMRAVPEQIRPWPBGTYLLTGDFGFSDBTRPAGRRYNTD 240
DB 181 PYTRLALENARGVIAVSDMRAVPEQIRPWPBGTYLLTGDFGFSDBTRPAGRRYNTD 240
QY 241 AESQVGRGFRGWRPVNIDPFGAGRGPAPOLPGFDEGGGLRPXK 286
DB 241 AESQVGRGFRGWRPVNIDPFGAGRGPAPOLPGFDEGGGLRPXK 286

RESULT 3

US-09-056-556-81
Sequence 81, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 81:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-81

Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFMAADQMARGFVLGATAGRTTLTGSGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
DB 1 GDSFMAADQMARGFVLGATAGRTTLTGSGLOHADGSHLLDATTNPVAVYDPAFAVEIG 60
QY 61 YIYESGLARMCNENPFYITVYNEPYQPPPEPFDEGVIGIYRYHAATEQRTNK 120
DB 61 YIYESGLARMCNENPFYITVYNEPYQPPPEPFDEGVIGIYRYHAATEQRTNK 120
QY 121 XQILASGVAMPALRAAOMLAEMDVADYVSTSGELNRDGVLETETKLHPDRPAGV 180
DB 121 XQILASGVAMPALRAAOMLAEMDVADYVSTSGELNRDGVLETETKLHPDRPAGV 180

Db 121 XQIIASGVAMPALRAAQMIAAEWDVAADVWSVTSGELNRDGVITETKLRHPDRPAGV 180
QY 181 PYTTRALENARGVIAVSDMRAVPEQIRPWPVGTTLTGTDFGSDTRPAGRRYENTD 240
Db 181 PYTTRALENARGVIAVSDMRAVPEQIRPWPVGTTLTGTDFGSDTRPAGRRYENTD 240
QY 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAOLPGFDEGGGLRPXK 286
Db 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAOLPGFDEGGGLRPXK 286

RESULT 4

US-09-072-596-82
; Sequence 82, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-072-596-82

Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
Db 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
QY 61 YIXESGLARNGENPENIFFYITVYNEPVYQPPENFDEPGVIGIYRHAATEQRTNK 120
Db 61 YIXESGLARNGENPENIFFYITVYNEPVYQPPENFDEPGVIGIYRHAATEQRTNK 120
QY 121 XQIIASGVAMPALRAAQMIAAEWDVAADVWSVTSGELNRDGVITETKLRHPDRPAGV 180
Db 121 XQIIASGVAMPALRAAQMIAAEWDVAADVWSVTSGELNRDGVITETKLRHPDRPAGV 180

QY 181 PYTTRALENARGVIAVSDMRAVPEQIRPWPVGTTLTGTDFGSDTRPAGRRYENTD 240
Db 181 PYTTRALENARGVIAVSDMRAVPEQIRPWPVGTTLTGTDFGSDTRPAGRRYENTD 240
QY 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAOLPGFDEGGGLRPXK 286
Db 241 AESQVGRGFGRGWPGRRVNIIDPFAGRGPPAOLPGFDEGGGLRPXK 286

RESULT 5

US-09-072-967-81
; Sequence 81, Application US/09072967
; Patent No. 6592877
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 81:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-072-967-81

Query Match 99.8%; Score 1520; DB 2; Length 286;
Best Local Similarity 100.0%; Pred. No. 2.3e-154;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
Db 1 GDSFWAADMARGFVGTATGRTTLTGEGLQHADGSHLLDANPVAVADPAFAVEIG 60
QY 61 YIXESGLARNGENPENIFFYITVYNEPVYQPPENFDEPGVIGIYRHAATEQRTNK 120
Db 61 YIXESGLARNGENPENIFFYITVYNEPVYQPPENFDEPGVIGIYRHAATEQRTNK 120
QY 121 XQIIASGVAMPALRAAQMIAAEWDVAADVWSVTSGELNRDGVITETKLRHPDRPAGV 180
Db 121 XQIIASGVAMPALRAAQMIAAEWDVAADVWSVTSGELNRDGVITETKLRHPDRPAGV 180

QY 61 YXESGLARMCGENPENIFYYITVNEPYVQPEPENFDEGVIGIYRYHAATEQRTNK 120
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Db 61 YXESGLARMCGENPENIFYYITVNEPYVQPEPENFDEGVIGIYRYHAATEQRTNK 120
| | | | |
QY 121 XQILASGVAMPALRAAQMLAEMDVADVSVTSWGEINRDGVITETKLRHPDRPAGV 180
| | | | |
Db 121 XQILASGVAMPALRAAQMLAEMDVADVSVTSWGEINRDGVITETKLRHPDRPAGV 180
| | | | |
QY 181 PYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNTD 240
| | | | |
Db 181 PYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNTD 240
| | | | |
QY 241 AESQVGRGFGRGWPGRRVNDIPFAGRGPPAOLPGFDEGGGLRFXK 286
| | | | |
Db 241 AESQVGRGFGRGWPGRRVNDIPFAGRGPPAOLPGFDEGGGLRFXK 286
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RESULT 8

US-09-577-005-32
; Sequence 32, Application US/09577005
; Patent No. 6962805
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EIICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, AN
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AM
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 922
; TYPE: PR1
; ORGANISM: Brevibacterium lactofermentum ATCC13869
US-09-577-005-32

Query Match 45.8%; Score 698; DB 2; Length 922;
Best Local Similarity 56.9%; Pred. No. 1.6e-65;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
Db 636 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
QY 61 YXESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEGVIGIYRYHAATEQRTN 119
| | | | |
Db 61 YXESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEGVIGIYRYHAATEQRTN 119
| | | | |
QY 696 HLYHRGIDRMVYGKGEDEVYIYITVNEPTPQPAPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
Db 696 HLYHRGIDRMVYGKGEDEVYIYITVNEPTPQPAPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
QY 120 XQILASGVAMPALRAAQMLAEMDVADVSVTSWGEINRDGVITETKLRHPDRPAG 179
| | | | |
Db 120 XQILASGVAMPALRAAQMLAEMDVADVSVTSWGEINRDGVITETKLRHPDRPAG 179
| | | | |
QY 755 EAMNLSGVGMQWALKAASILEADYGVRAVYTSATSWNLARDGAANKKQLRNPAGADAG 814
| | | | |
Db 755 EAMNLSGVGMQWALKAASILEADYGVRAVYTSATSWNLARDGAANKKQLRNPAGADAG 814
| | | | |
QY 180 VPYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNT 239
| | | | |
Db 180 VPYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNT 239
| | | | |
QY 815 EAFVYTLQKOTSGPYVAVSDFTDLPNQIREWVGDTYVIGADGFGSDTRPARRRFNTI 874
| | | | |
Db 815 EAFVYTLQKOTSGPYVAVSDFTDLPNQIREWVGDTYVIGADGFGSDTRPARRRFNTI 874
| | | | |

QY 240 DAEQV 245
| | | | |
Db 875 DAEQV 880
| | | | |

RESULT 9

US-09-577-005-34
; Sequence 34, Application US/09577005
; Patent No. 6962805
; GENERAL INFORMATION:
; APPLICANT: ASAKURA, YOKO
; APPLICANT: NAKAMURA, JUN
; APPLICANT: KANNO, SOHEI
; APPLICANT: SUGA, MIKIKO
; APPLICANT: KIMURA, EIICHIRO
; APPLICANT: ITO, HISAO
; APPLICANT: MATSUI, KAZUHIKO
; APPLICANT: OHSUMI, TSUYOSHI
; APPLICANT: NAKAMATSU, TSUYOSHI
; APPLICANT: KURAHASHI, OSAMU
; TITLE OF INVENTION: METHOD OF CONSTRUCTING AMINO ACID PRODUCING BACTERIAL STRAINS, AN
; TITLE OF INVENTION: OF PREPARING AMINO ACIDS BY FERMENTATION WITH THE CONSTRUCTED AM
; FILE REFERENCE: 0010-1108-0 CONT
; CURRENT APPLICATION NUMBER: US/09/577, 005
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: PCT/JP99/05175
; PRIOR FILING DATE: 1999-09-22
; PRIOR APPLICATION NUMBER: JP 271786/1998
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP 271787/1998
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 922
; TYPE: PR1
; ORGANISM: Brevibacterium lactofermentum ATCC13869
US-09-577-005-34

Query Match 45.8%; Score 698; DB 2; Length 922;
Best Local Similarity 56.9%; Pred. No. 1.6e-65;
Matches 140; Conservative 30; Mismatches 74; Indels 2; Gaps 2;

QY 1 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
Db 636 GDSFWAADMARGFVIGATAGRTTLTGEGLOHADGSHLLDATNPVAVYDPAFAVEIG 60
| | | | |
QY 61 YXESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEGVIGIYRYHAATEQRTN 119
| | | | |
Db 61 YXESGLARMCGENP-ENIFFYITVNEPYVQPEPENFDEGVIGIYRYHAATEQRTN 119
| | | | |
QY 696 HLYHRGIDRMVYGKGEDEVYIYITVNEPTPQPAPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
Db 696 HLYHRGIDRMVYGKGEDEVYIYITVNEPTPQPAPEGLDVEGLHKGIYLY-SRGEQTH 754
| | | | |
QY 120 XQILASGVAMPALRAAQMLAEMDVADVSVTSWGEINRDGVITETKLRHPDRPAG 179
| | | | |
Db 120 XQILASGVAMPALRAAQMLAEMDVADVSVTSWGEINRDGVITETKLRHPDRPAG 179
| | | | |
QY 755 EAMNLSGVGMQWALKAASILEADYGVRAVYTSATSWNLARDGAANKKQLRNPAGADAG 814
| | | | |
Db 755 EAMNLSGVGMQWALKAASILEADYGVRAVYTSATSWNLARDGAANKKQLRNPAGADAG 814
| | | | |
QY 180 VPYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNT 239
| | | | |
Db 180 VPYTRALLENARGVIAVSDMRAVPEQIRPMVPGTYTLTGTDGFGSDTRPAGRRYFNT 239
| | | | |
QY 815 EAFVYTLQKOTSGPYVAVSDFTDLPNQIREWVGDTYVIGADGFGSDTRPARRRFNTI 874
| | | | |
Db 815 EAFVYTLQKOTSGPYVAVSDFTDLPNQIREWVGDTYVIGADGFGSDTRPARRRFNTI 874
| | | | |

RESULT 10
US-09-489-039A-12282
; Sequence 12282, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.2004001
 CURRENT APPLICATION NUMBER: US/09/489,039A
 CURRENT FILING DATE: 2000-01-27
 PRIOR APPLICATION NUMBER: US 60/117,747
 PRIOR FILING DATE: 1999-01-29
 NUMBER OF SEQ ID NOS: 14342
 SEQ ID NO 12282
 LENGTH: 892
 TYPE: PRP
 ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-12282

Query Match 35.9%; Score 546.5; DB 2; Length 892;
 Best Local Similarity 45.1%; Pred. No. 2,7e-49;
 Matches 120; Conservative 39; Mismatches 100; Indels 9; Gaps 5;

QY 1 GDSFMAADQMAAGFVLGATAGTTTGGELQHADGSHLLDNTNPAVVAADPAFAEIG 60
 DB 614 GDLMAAGDQAGFLIGTSGRTTLNGEGLQHDGSHLSQSLTIPNCISYDPAVAEVA 673
 QY 61 YXESGLARWCGENPENNIFVITVNEPVVQPEPENFDEGVLGIGIRYHAATEORTNK 120
 DB 674 VIMHDLGVRYGGAQENYVYITLNNENYHMPAMPBGAE-EGIRKGIYKLE-TIEGSKG 721
 QY 121 XQILASGVAMPALRAAOMLAEMDVADVWSTSGEINRDGVVETEKLRHPDRPAGV 180
 DB 732 VQILGSGSILRHVREAAEILAKDYGVSIVTSFTELARDQDCERMMMLHPLETPRV 791
 QY 181 PYVTRALENARGVIAVSDMRAVPEQIRPWVG-TYLTGTDGFGSPDTRPAGRRYFNT 239
 DB 792 PYIAQVMNDA--PAVASTDYMKLFAEQVRYTVPADRYVLGTGDFGRSDSRNLKHHFEV 849
 QY 240 DAEQVGRGFG---RGWGRGRVNIID 261
 DB 850 DASVYVAALGELAKRGEIDKVVAD 875

RESULT 11
 US-08-215-709-1
 Sequence 1, Application US/08215709
 Patent No. 5432071

GENERAL INFORMATION:
 APPLICANT: ICHIKAWA, Toshio
 APPLICANT: KOYAMA, Yasuji
 APPLICANT: OTAKE, Hideko
 APPLICANT: NAKANO, Eiichi
 TITLE OF INVENTION: Variant E1 Protein Gene For Pyruvate
 TITLE OF INVENTION: Dehydrogenase Complex And Variant E1 Protein Of Pyruvate
 TITLE OF INVENTION: Dehydrogenase Complex
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 STREET: 1300 I Street, N.W., Suite 700
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/215,709
 FILING DATE: 22-MAR-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Jean B. Fordis
 REGISTRATION NUMBER: 32,984
 REFERENCE/DOCKET NUMBER: 04853.0011-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000

TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 887 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-215-709-1

Query Match 35.8%; Score 544.5; DB 1; Length 887;
 Best Local Similarity 44.7%; Pred. No. 4.3e-49;
 Matches 119; Conservative 38; Mismatches 100; Indels 9; Gaps 5;

QY 1 GDSFMAADQMAAGFVLGATAGTTTGGELQHADGSHLLDNTNPAVVAADPAFAEIG 60
 DB 609 GDLMAAGDQAGFLIGTSGRTTLNGEGLQHDGSHLSQSLTIPNCISYDPAVAEVA 668
 QY 61 YXESGLARWCGENPENNIFVITVNEPVVQPEPENFDEGVLGIGIRYHAATEORTNK 120
 DB 669 VIMHDLGVRYGGAQENYVYITLNNENYHMPAMPBGAE-EGIRKGIYKLE-TIEGSKG 726
 QY 121 XQILASGVAMPALRAAOMLAEMDVADVWSTSGEINRDGVVETEKLRHPDRPAGV 180
 DB 727 VQILGSGSILRHVREAAEILAKDYGVSIVTSFTELARDQDCERMMMLHPLETPRV 786
 QY 181 PYVTRALENARGVIAVSDMRAVPEQIRPWVG-TYLTGTDGFGSPDTRPAGRRYFNT 239
 DB 787 PYIAQVMNDA--PAVASTDYMKLFAEQVRYTVPADRYVLGTGDFGRSDSRNLKHHFEV 844
 QY 240 DAEQVGRGFG---RGWGRGRVNIID 261
 DB 845 DASVYVAALGELAKRGEIDKVVAD 870

RESULT 12
 US-09-540-236-3586
 Sequence 3586, Application US/09540236
 Patent No. 6673910

GENERAL INFORMATION:
 APPLICANT: Gary L. Breton et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATARRI
 FILE REFERENCE: 2709.2005-001
 CURRENT APPLICATION NUMBER: US/09/540,236
 CURRENT FILING DATE: 2000-04-04
 NUMBER OF SEQ ID NOS: 3840
 SEQ ID NO 3586
 LENGTH: 925
 TYPE: PRP
 ORGANISM: M. catarrhalis
 US-09-540-236-3586

Query Match 35.6%; Score 541.5; DB 2; Length 925;
 Best Local Similarity 45.9%; Pred. No. 9.7e-49;
 Matches 112; Conservative 39; Mismatches 86; Indels 7; Gaps 4;

QY 1 GDSFMAADQMAAGFVLGATAGTTTGGELQHADGSHLLDNTNPAVVAADPAFAEIG 60
 DB 616 GDLMAAGDQAGFLIGTSGRTTLNGEGLQHDGSHLSQSLTIPNCISYDPAVAEVA 675
 QY 61 YXESGLARWCGENPENNIFVITVNEPVVQPEPENFDEGVLGIGIRYHAATEORTNK 120
 DB 676 VIMHDLGVRYGGAQENYVYITLNNENYHMPAMPBGAE-EGIRKGIYKLE-TIEGSKG 720
 QY 121 XQILASGVAMPALRAAOMLAEMDVADVWSTSGEINRDGVVETEKLRHPDRPAGV 180
 DB 731 VQILGSGSILRHVREAAEILAKDYGVSIVTSFTELARDQDCERMMMLHPLETPRV 790
 QY 181 PYVTRALENARGVIAVSDMRAVPEQIRPWVG-TYLTGTDGFGSPDTRPAGRRYFNT 238
 DB 791 PWTISOLASHKGIIVVAITDYMKLFAEQVRYTVPADRYVLGTGDFGRSDSRNLKHHFEV 850

QY 239 TDAB 242
DB 851 VNAB 854

RESULT 13

US-09-543-681A-4915
; Sequence 4915, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4915
; LENGTH: 897
; TYPE: PRN
; ORGANISM: Proteus mirabilis
US-09-543-681A-4915

Query Match 35.5%; Score 540.5; DB 2; Length 897;
Best Local Similarity 44.6%; Pred. No. 1,2e-48;
Matches 112; Conservative 39; Mismatches 95; Indels 5; Gaps 4;

QY 1 GDSFWAADQMGAFVIGATAGRTTLTGEGLOHADGSHLLDATTNPVAVAYDPAYEIG 60
DB 619 GDLMAAGDQAGFLIGSTGRTTLNGEGLOHEDGSHLSLTIPNCISYDPAYEVA 678
QY 61 YXESGLABMGCPENIFFYITVYNEPVYQPEPEPFDEGVIGIYRYHAATEORTNK 120
DB 679 VIMODGIERVYGDQENVYITTLNENYHMPAMPAGAB-EGIRKGIYKLE-SLEGAKG 736
QY 121 XQIIASGVAMPALRAQMLAEMDVADWVSTSMGLNRDGVITETKLRHPDRPAGV 180
DB 737 VOLLGSGVILRERYKAKILRDEYQHSNWSVTSFELARDGACGEYRHLPLABEVK 796
QY 181 PVTYTRALENARGPVIAVSDMRAVPEQIRPWPVG-TYLLTGDTGFGSDTRPAGRRYFNT 239
DB 797 PYIAQIWMNDA--PAVASTDYMKLFABEQVRYTPADRYLVGTGDFGSDSRENLRHHEFV 854
QY 240 DAEQVGRGFG 250
DB 855 DTSYVIVPALG 865

RESULT 14

US-09-252-991A-32759
; Sequence 32759, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32759
; LENGTH: 922
; TYPE: PRN
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32759

Query Match 35.4%; Score 539.5; DB 2; Length 922;

Best Local Similarity 46.5%; Pred. No. 1.6e-48;
Matches 112; Conservative 33; Mismatches 93; Indels 3; Gaps 3;

QY 1 GDSFWAADQMGAFVIGATAGRTTLTGEGLOHADGSHLLDATTNPVAVAYDPAYEIG 60
DB 642 GDLMAAGDQAGFLIGSTGRTTLNGEGLOHEDGSHLSLTIPNCISYDPAYEVA 701
QY 61 YXESGLABMGCPENIFFYITVYNEPVYQPEPEPFDEGVIGIYRYHAATEORTNK 120
DB 702 VIREGSGRWI-EEODIFYITVNMENYVQAMPKGA-EGIKGMVLEEDKKEAHH 759
QY 121 XQIIASGVAMPALRAQMLAEMDVADWVSTSMGLNRDGVITETKLRHPDRPAGV 180
DB 760 VOLLGSGVILRERYKAKILRDEYQHSNWSVTSFELARDGACGEYRHLPLABEVK 819
QY 181 PVTYTRALENARGPVIAVSDMRAVPEQIRPWPVG-TYLLTGDTGFGSDTRPAGRRYFNT 239
DB 820 SYVEECIGRRGVIASTDYMKLYAEQIRQWFSKEYKVLGTGDFGSDSRKLRNFEV 879
QY 240 D 240
DB 880 D 880

RESULT 15

US-09-328-352-6037
; Sequence 6037, Application US/093280352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6037
; LENGTH: 906
; TYPE: PRN
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6037

Query Match 33.4%; Score 509; DB 2; Length 906;
Best Local Similarity 45.9%; Pred. No. 2.8e-45;
Matches 112; Conservative 37; Mismatches 87; Indels 8; Gaps 6;

QY 1 GDSFWAADQMGAFVIGATAGRTTLTGEGLOHADGSHLLDATTNPVAVAYDPAYEIG 60
DB 606 GDLMAAGDQAGFLIGATAGRTTLNGEGLOHODGSHLSLTIPNCISYDPCEGYELA 665
QY 61 YXESGLABMGCPENIFFYITVYNEPVYQPEPEPFDEGVIGIYRYHAATEORTNK 120
DB 666 VIVHDIQRMV-VNQEVRFFYITVNMENYHMPMBEGR-EGIRGMYLE-KDEKAT-- 720
QY 121 XQIIASGVAMPALRAQMLAEMDVADWVSTSMGLNRDGVITETKLRHP-DRPAG 179
DB 721 VOLLGSGVILRERYKAKILRDEYQHSNWSVTSFELARDGACGEYRHLPLABEVK 780
QY 180 PVTYTRALENARGPVIAVSDMRAVPEQIRPWPVG-TYLLTGDTGFGSDTRPAGRRYF 237
DB 781 ESWWSKQLRGTEGIVVATDHRMRAVSEQIRAYLPDGRFVALGTDGYSRDTNLRSLFF 840
QY 238 NTDA 241
DB 841 GVDA 844

Search completed: February 3, 2006, 17:02:25
Job time : 21.7683 secs

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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:00:05 ; Search time 71.3819 Seconds
(without alignments)
1138.526 Million cell updates/sec

Title: US-09-688-672A-54

Sequence: 1 MGHNNHHVYIDIGTSPTSW.....RAWTEAVGNRRQDSKSK 983

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: Issued_Patents_AA:*
2: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCBUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/RB_COMB.pep:*
7: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2700	53.2	802	2	US-09-056-556-214 Sequence 214, App
2	2700	53.2	802	2	US-09-072-596-209 Sequence 209, App
3	2700	53.2	802	2	US-09-072-596-346 Sequence 346, App
4	2700	53.2	802	2	US-09-072-967-214 Sequence 214, App
5	2700	53.2	802	2	US-09-072-967-351 Sequence 351, App
6	2700	53.2	802	2	US-09-287-849-10 Sequence 10, Appl
7	2700	53.2	802	2	US-10-193-002-209 Sequence 209, App
8	2700	53.2	802	2	US-10-193-002-346 Sequence 346, App
9	2700	53.2	802	2	US-10-084-843-214 Sequence 214, App
10	2700	53.2	802	2	US-10-084-843-351 Sequence 351, App
11	2375	46.8	460	2	US-09-056-556-184 Sequence 184, App
12	2375	46.8	460	2	US-09-072-596-179 Sequence 179, App
13	2375	46.8	460	2	US-09-072-967-184 Sequence 184, App
14	2375	46.8	460	2	US-10-193-002-179 Sequence 179, App
15	2375	46.8	460	2	US-10-084-843-184 Sequence 184, App
16	1839	36.3	652	2	US-09-072-596-350 Sequence 350, App
17	1839	36.3	652	2	US-09-072-967-355 Sequence 355, App
18	1839	36.3	652	2	US-10-193-002-350 Sequence 350, App
19	1839	36.3	652	2	US-10-084-843-355 Sequence 355, App
20	1831	36.1	374	2	US-08-818-112-153 Sequence 153, App
21	1831	36.1	374	2	US-08-818-111-148 Sequence 148, App
22	1831	36.1	374	2	US-09-056-556-153 Sequence 153, App
23	1831	36.1	374	2	US-09-056-556-155 Sequence 155, App
24	1831	36.1	374	2	US-09-072-596-148 Sequence 148, App
25	1831	36.1	374	2	US-09-072-596-150 Sequence 150, App
26	1831	36.1	374	2	US-09-072-967-153 Sequence 153, App
27	1831	36.1	374	2	US-09-072-967-155 Sequence 155, App

28	1831	36.1	374	2	US-09-287-849-6 Sequence 6, Appl
29	1831	36.1	374	2	US-09-287-849-40 Sequence 40, Appl
30	1831	36.1	374	2	US-10-193-002-148 Sequence 148, App
31	1831	36.1	374	2	US-10-193-002-150 Sequence 150, App
32	1831	36.1	374	2	US-10-084-843-153 Sequence 153, App
33	1831	36.1	374	2	US-10-084-843-155 Sequence 155, App
34	1829	36.1	373	2	US-09-118-426-5 Sequence 5, Appl
35	1820	35.9	351	2	US-09-118-426-6 Sequence 6, Appl
36	791	15.6	166	2	US-08-818-112-89 Sequence 89, Appl
37	791	15.6	166	2	US-08-818-111-90 Sequence 90, Appl
38	791	15.6	166	2	US-09-056-556-89 Sequence 89, Appl
39	791	15.6	166	2	US-09-072-596-90 Sequence 90, Appl
40	791	15.6	166	2	US-09-072-967-89 Sequence 89, Appl
41	791	15.6	166	2	US-10-193-002-90 Sequence 90, Appl
42	791	15.6	166	2	US-10-084-843-89 Sequence 89, Appl
43	485	9.6	100	2	US-08-818-112-115 Sequence 115, App
44	485	9.6	100	2	US-08-818-111-110 Sequence 110, App
45	485	9.6	100	2	US-09-056-556-115 Sequence 115, App

ALIGNMENTS

RESULT 1
US-09-056-556-214
Sequence 214, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Markl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 214:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-214
Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHVYIDIGTSPTSWEOAAAEVORARSPVDDIRVAVTEQMAVDSAGKITRYI 60
DB 1 MGHNNHHVYIDIGTSPTSWEOAAAEVORARSPVDDIRVAVTEQMAVDSAGKITRYI 60
OY 61 KLEVSFMRAPDRCSKPPSGSPETGAGAGTAVTTPASSPVTLAETGSLTLYPLFNIMWG 120

TREATM

```

Db      61 KLEVSFMRPAQRR-GSKPPSGSPETGAGACTVATTASSPVTLAETGSLTLYLPLFNLWG 119
Qy      121 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITATAISA 180
Db      120 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITATAISA 179
Qy      181 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKWDPPQIAALNPGVNLPGTAVVPLHRSDDG 240
Db      180 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKWDPPQIAALNPGVNLPGTAVVPLHRSDDG 239
Qy      241 GDTFLFTQYISKODPEGMGKSPGFGTTVDPPAVGALGENGNGMTGCAETPGCVAYIG 300
Db      240 GDTFLFTQYISKODPEGMGKSPGFGTTVDPPAVGALGENGNGMTGCAETPGCVAYIG 299
Qy      301 ISFLDQASQRLGEAQLGNSSGNFLPDAOSIQAAAAGFASKTPANQATSMIDGPADGY 360
Db      300 ISFLDQASQRLGEAQLGNSSGNFLPDAOSIQAAAAGFASKTPANQATSMIDGPADGY 359
Qy      361 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 420
Db      360 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 419
Qy      421 ATISSAEMKTDATLAEAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAAYV 480
Db      420 ATISSAEMKTDATLAEAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAAYV 479
Qy      481 RFOEANKKQKQELDEISTNIRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELILNR 540
Db      480 RFOEANKKQKQELDEISTNIRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELILNR 537
Qy      541 ANEVEAPMDPPDVTPTPCBELTAAKNAQOQLVLSANMREYLAAGKQKRLATSLRNA 600
Db      538 PPAATPVAPPAAANTPVAQGPDPNAAPPADPNAAPPVIAAPNAAPQVR----- 589
Qy      601 AKAYGEVDEBAATALDNDGEGTVOAESAGAVGDS-----SAELTTPRYATAGBPNF- 653
Db      590 -----IDNPVGGFSPALPAGWVESDAAFDYGSALLS-----KTTGDDPPF 630
Qy      654 -----MDLEAARKLETGDOGASLAFADGWNFTLTLQGDVNRFRGFD 697
Db      631 GQPPVANDTRIVLGRDQQLVYASAEATDSKAA-----RLSDMEF--YM 675
Qy      698 NMEGDAATACEASLDQORQWILHMAKLSAAMAKOQVVAQLHVARREHPYEDIVGLER 757
Db      676 PYGTRINQETVSD-----ANGVSGSASYEVEKFSKDNQGIWIGVIGSPA 724
Qy      758 LVANENSARQIILPVYAEYQORSEKVLTEYNN-----KAALBPVNP-EKPPPAIKIDP 809
Db      725 ANAPDAGPPQRMFVYM-----LGTANNPVDKGAALALAESIRPLVAPPPA-----P 770
Qy      810 PPPPOGGLIPGLMPPSDSGVTPGTGMPAAMPVPTGSPGGGLPA 856
Db      771 APAPAEPA-----PAPAPAGEVAP-----TPPTTPPQRTLPA 802

RESULT 2
US-09-072-596-209
; Sequence 209, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neco, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESS: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 209:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-072-596-209

Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No.2.6e-187; Indels 116; Gaps 15;
Matches 591; Conservative 27; Mismatches 153;

Qy      1 MGHNNHHNVIDIGTPTSWEQAAAEVQRPARDVDIRVARYIEQMAVDSAGKITRYI 60
Db      1 MGHNNHHNVIDIGTPTSWEQAAAEVQRPARDVDIRVARYIEQMAVDSAGKITRYI 60
Qy      61 KLEVSFMRPAQRR-GSKPPSGSPETGAGACTVATTASSPVTLAETGSLTLYLPLFNLWG 120
Db      61 KLEVSFMRPAQRR-GSKPPSGSPETGAGACTVATTASSPVTLAETGSLTLYLPLFNLWG 119
Qy      121 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITATAISA 180
Db      120 PAFHERYPNVTITTAOGTSGAGIAOAAAGTVNIGASDAYISEGMAAHKGMNITATAISA 179
Qy      181 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKWDPPQIAALNPGVNLPGTAVVPLHRSDDG 240
Db      180 QOVNVMIPGVSEHLKNGKYLAAAYOGTITKWDPPQIAALNPGVNLPGTAVVPLHRSDDG 239
Qy      241 GDTFLFTQYISKODPEGMGKSPGFGTTVDPPAVGALGENGNGMTGCAETPGCVAYIG 300
Db      240 GDTFLFTQYISKODPEGMGKSPGFGTTVDPPAVGALGENGNGMTGCAETPGCVAYIG 299
Qy      301 ISFLDQASQRLGEAQLGNSSGNFLPDAOSIQAAAAGFASKTPANQATSMIDGPADGY 360
Db      300 ISFLDQASQRLGEAQLGNSSGNFLPDAOSIQAAAAGFASKTPANQATSMIDGPADGY 359
Qy      361 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 420
Db      360 PIINVEYAIYNNRQKAAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 419
Qy      421 ATISSAEMKTDATLAEAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAAYV 480
Db      420 ATISSAEMKTDATLAEAGNFERISGDLKTQIDQVESTAGSLQGWGGAAGTAQAAYV 479
Qy      481 RFOEANKKQKQELDEISTNIRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELILNR 540
Db      480 RFOEANKKQKQELDEISTNIRQAGVQYSRADDEQOQALSSOMGFTQSQTIVVDOQELILNR 537
Qy      541 ANEVEAPMDPPDVTPTPCBELTAAKNAQOQLVLSANMREYLAAGKQKRLATSLRNA 600
Db      538 PPAATPVAPPAAANTPVAQGPDPNAAPPADPNAAPPVIAAPNAAPQVR----- 589

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QY 601 AKAYGEVDEBAATLNDGEGTVOAESAGAVGDS-----SABLTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGFSFALPAGWVESDAAHFDYGSALLS-----KTGGDPFPF 630
 QY 654 -----MDLKEARKLETGDOGASLAHFDGWTFFNLTLGGDYKRFEGFD 697
 Db 631 GQPPVANDTRIVLGRDLQKLYASAEATDSKAA-----RLGSDMGEF--YM 675
 QY 698 NWBGDAATACEASLDQQRQWILHMAKLSAAMAKQAQVVAQLHWAREHPTIEDIVGLER 757
 Db 676 PYPTRIHQETVSLD-----ANGVSGASYEVKFSDDSKPQNGQIWTGVISPA 724
 QY 758 LVYENPSARDQILPVYAEOORSEKVLTEYNN-----KALBPVNP-PKPPPAIKIDP 809
 Db 725 ANAPDAGPQGRWVFW-----LGTANNPVDKGAALALAESIRPLVAPPPA-----P 770
 QY 810 PPPQEGGLIPGFLMPPSDSGVTPGTGMPAPMVPPTGSPGGGLPA 856
 Db 771 APAPABPA-----PAPAPAGEVAP-----TPPTPPTQRTLPA 802

RESULT 3

US-09-072-596-346
 ; Sequence 346, Application US/09072596
 ; Patent No. 6458366
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Campos-Neto, Antonio
 ; APPLICANT: Houghton, Raymond
 ; APPLICANT: Vedick, Thomas S.
 ; APPLICANT: Twardzik, Daniel R.
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Hendrickson, Ronald C.
 ; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
 ; NUMBER OF SEQUENCES: 350
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SEED AND BERRY LLP
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue
 ; CITY: Seattle
 ; STATE: Washington
 ; COUNTRY: USA
 ; ZIP: 98104-7092
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/072.596
 ; FILING DATE: 05-MAY-1998
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Maki, David J.
 ; REGISTRATION NUMBER: 31,392
 ; REFERENCE/DOCKET NUMBER: 210121.417C9
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 622-4900
 ; TELEFAX: (206) 682-6031
 ; INFORMATION FOR SEQ ID NO: 346:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 802 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-072-596-346

Query Match 53.2%; Score 2700; DB 2; Length 802;
 Best Local Similarity 66.6%; Pred. No. 2.6e-187;
 Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHHHHHVIDIIGTSTPSWEQAAAEAVORARSDVDIRVAVIIEQMAVDSAGKITRYI 60
 Db 1 MGHHHHHVIDIIGTSTPSWEQAAAEAVORARSDVDIRVAVIIEQMAVDSAGKITRYI 60
 QY 61 KLEVSFPMRPAORCPKPSGSPETGAGCTAATTASSPVTIAETGSLTLYLFLNKG 120
 Db 61 KLEVSFPMRPAORCPKPSGSPETGAGCTAATTASSPVTIAETGSLTLYLFLNKG 119
 QY 121 PAFHERYPNVTITTAQCGSGAGTAAAGVNNIGASDAVYISEGMAAHKGLMNTALISA 180
 Db 120 PAFHERYPNVTITTAQCGSGAGTAAAGVNNIGASDAVYISEGMAAHKGLMNTALISA 179
 QY 181 QQVYNNLPVSEHLKTLNGKTLAAMYQSTIKTWDDPQIAALNPGVNLPGTAVPLHRS DGS 240
 Db 180 QQVYNNLPVSEHLKTLNGKTLAAMYQSTIKTWDDPQIAALNPGVNLPGTAVPLHRS DGS 239
 QY 241 GDTFLFTQYLSKODPESMGKSPGFTTVDPPAVPAGALGENGGMVTGCAETPCVAYIG 300
 Db 240 GDTFLFTQYLSKODPESMGKSPGFTTVDPPAVPAGALGENGGMVTGCAETPCVAYIG 299
 QY 301 ISFLDQASQRLGEAQLGNSSGNFLLPDAQSIQAAAAGFASKTPANQALSMIGPADGY 360
 Db 300 ISFLDQASQRLGEAQLGNSSGNFLLPDAQSIQAAAAGFASKTPANQALSMIGPADGY 359
 QY 361 PIINVEYAIYNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFOPLPAVVVLSDALI 420
 Db 360 PIINVEYAIYNNRQKDAATQTLQAFHMAITDGNKASFLDQVHFOPLPAVVVLSDALI 419
 QY 421 ATISSAEMKTDAAITLAGEAGNFERISGDLTKQIDQVSTAGSLQGNRGAAGTAQAAYV 480
 Db 420 ATISSAEMKTDAAITLAGEAGNFERISGDLTKQIDQVSTAGSLQGNRGAAGTAQAAYV 479
 QY 481 RFOBAANKQOEIDEISTNIRQAGVQSRADDEQQALSSQMGFTSQTYVNDQOELINR 540
 Db 480 RFOBAANKQOEIDEISTNIRQAGVQSRADDEQQALSSQMGFTV--PTTAAAPPSTAAA 537
 QY 541 ANEVEAPMADPPTDVPITTPCELTAAKVAQQLVLSADNMMEBYLAAGAKERORLATSLRNA 600
 Db 538 PPAAPATVAPPAPPAANTPAAQPDPPAAPPAPPPAAPPVAPPAAPPAAPPAAPPA 589
 QY 601 AKAYGEVDEBAATLNDGEGTVOAESAGAVGDS-----SABLTDTPRVATAGEBNF- 653
 Db 590 -----IDNPVGFSFALPAGWVESDAAHFDYGSALLS-----KTGGDPFPF 630
 QY 654 -----MDLKEARKLETGDOGASLAHFDGWTFFNLTLGGDYKRFEGFD 697
 Db 631 GQPPVANDTRIVLGRDLQKLYASAEATDSKAA-----RLGSDMGEF--YM 675
 QY 698 NWBGDAATACEASLDQQRQWILHMAKLSAAMAKQAQVVAQLHWAREHPTIEDIVGLER 757
 Db 676 PYPTRIHQETVSLD-----ANGVSGASYEVKFSDDSKPQNGQIWTGVISPA 724
 QY 758 LVYENPSARDQILPVYAEOORSEKVLTEYNN-----KALBPVNP-PKPPPAIKIDP 809
 Db 725 ANAPDAGPQGRWVFW-----LGTANNPVDKGAALALAESIRPLVAPPPA-----P 770
 QY 810 PPPQEGGLIPGFLMPPSDSGVTPGTGMPAPMVPPTGSPGGGLPA 856
 Db 771 APAPABPA-----PAPAPAGEVAP-----TPPTPPTQRTLPA 802

RESULT 4

US-09-072-967-214
 ; Sequence 214, Application US/09072967
 ; Patent No. 6592877
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Campos-Neto, Antonio
 ; APPLICANT: Houghton, Raymond
 ; APPLICANT: Vedick, Thomas S.

APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 214:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-214

Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGNHHNHVVDIGTSPSTWEOAAEAIVORARDSDVDIRAVRVEOMANDSACKIYRI 60
DB 1 MGNHHNHVVDIGTSPSTWEOAAEAIVORARDSDVDIRAVRVEOMANDSACKIYRI 60
QY 61 KLEVSFMRPAOPRCSPGSPSETGAGATVATTPASSPVTLAETGSTALLYPLNIMG 120
DB 61 KLEVSFMRPAOPRCSPGSPSETGAGATVATTPASSPVTLAETGSTALLYPLNIMG 119
QY 121 PAFHERYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGMINTALISA 180
DB 121 PAFHERYPNVTITTAQGTGSGAGIAQAAAGTVNIGASDAVYISEGMAAHKGMINTALISA 179
QY 181 QOVNVMNPGVSEHKLNGKXLAANYOGTITKWDPPQJALNPGVNLGTVAVPLHRSDGS 240
DB 181 QOVNVMNPGVSEHKLNGKXLAANYOGTITKWDPPQJALNPGVNLGTVAVPLHRSDGS 239
QY 241 GDTFLLFTQVYSKODPEGMGKSPFGTIVDPFAVPALGNGNGGAMVGCJETPCVAYIG 300
DB 241 GDTFLLFTQVYSKODPEGMGKSPFGTIVDPFAVPALGNGNGGAMVGCJETPCVAYIG 299
QY 301 ISFLDQSGRLGEOAGLGNSSGNFLPDAQSIQAAAAGFASKTPANQASIMIDPAPDGY 360
DB 301 ISFLDQSGRLGEOAGLGNSSGNFLPDAQSIQAAAAGFASKTPANQASIMIDPAPDGY 359
QY 361 PIINVEYAIYNNKQKDAATQTLQAFIHMATTDGNKASFLDQVHFQPLPRAVVKLSALI 420
DB 361 PIINVEYAIYNNKQKDAATQTLQAFIHMATTDGNKASFLDQVHFQPLPRAVVKLSALI 419
QY 421 ATISSAEMKTDAATLQAEAGNFERISGDLKTQIDQVSTGSLQSGMRGAAGTAQAAYV 480
DB 421 ATISSAEMKTDAATLQAEAGNFERISGDLKTQIDQVSTGSLQSGMRGAAGTAQAAYV 479

QY 481 RFOEANKKOEIDEISTNIRQAGVOYSRADEEQOALSSOMGFQTSQTVVDDQETLNR 540
DB 480 RFOEANKKOEIDEISTNIRQAGVOYSRADEEQOALSSOMGFV--PTTAASPPSTAA 537
QY 541 ANEVEAPMADPTDVPITPCELTAAKAAQOVLASADNMEVYLAAGAKERQRLATSLRNA 600
DB 538 PPAATVAPAPPAAANTPFAQGDPRPAAPPDPNAPPPVYAPNAPQVYR----- 589
QY 601 AKAYGEVDEBAATALDNDGEGTVQASAGAVGDS-----SALDTTPVATAGEBNF- 653
DB 590 -----IDNPVGFSFALPAGWVESDAHFVGYSAALS-----KTTGDDPPF 630
QY 654 -----MDLKAARKLETGQGSALHAFADGNMTFNLTLOGDVKRFPGFD 697
DB 631 GQPPVANDTRIVIGRIDQXLYASAEATDSKAAA-----RLGSDMGEF--YM 675
QY 698 NMEGDATACEASLDQORQWILHMAKLSAMAKQAOYVAQLHWAREHPYEDIVGLER 757
DB 676 PYGOTRINOETVSLD-----ANGVSGASVYEVKFSPPSKNGQIMTCVIGSPA 724
QY 758 LYAENPSARDQILPYVAEYQORSEKVLTEYNN-----KALEPVNP-EKPPPAIKIDP 809
DB 725 ANAPDAGPPQRMFWVW-----LGTANNPVDKGAAKALAESIRPLVAPPAP-----P 770
QY 810 PPPPOEGILPFGFLMPPSDSGSVTPGTMPAAPMVPPTPSGGGGLPA 856
DB 771 APAPAEBA-----PAPAPAGEVAF-----TPTTPTPORTLPA 802

RESULT 5

US-09-072-967-351
Sequence 351, Application US/09072967
Patent No. 6592877

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedivick, Thomas S.
APPLICANT: Twardzik, Daniel R.

APPLICANT: Lodes, Michael J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 351:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-967-351

Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

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QY 1 MGHNNHHVVDIIGTSPTEWQAAAEVQARSDVDIRVARYEODMAVDSAGKITRYRI 60
DB 1 MGHNNHHVVDIIGTSPTEWQAAAEVQARSDVDIRVARYEODMAVDSAGKITRYRI 60
QY 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 120
DB 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 119
QY 121 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 180
DB 120 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 179
QY 181 QQVNNYLPVSEHLKINGKTLAAMYGCTITKWDPPQIAALNPGVNLPGTAVVPLHRS DGS 240
DB 180 QQVNNYLPVSEHLKINGKTLAAMYGCTITKWDPPQIAALNPGVNLPGTAVVPLHRS DGS 239
QY 241 GDTFLLFTQVYSKODPEGMGKSPGFGTTVDPPAVPAGALGNGNGMTGCAETPGCVAYIG 300
DB 240 GDTFLLFTQVYSKODPEGMGKSPGFGTTVDPPAVPAGALGNGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAQLGSSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 360
DB 300 ISFLDQASQGLGEAQLGSSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 359
QY 361 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 420
DB 360 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 419
QY 421 ATISSAEMKTDATTLAQEAGNFERISGDLKTQIDOVSTAGSLQCGWRGAAGTAQAQAVV 480
DB 420 ATISSAEMKTDATTLAQEAGNFERISGDLKTQIDOVSTAGSLQCGWRGAAGTAQAQAVV 479
QY 481 RFOEANKKQKQBLDEISTNIRQAGVOYSRADBEQQAALSSQMGFTQSQTLYVDDQETILNR 540
DB 480 RFOEANKKQKQBLDEISTNIRQAGVOYSRADBEQQAALSSQMGFTV--PTTAAAPPTSTAAA 537
QY 541 ANEVEAPMADPTDVPITPCELTAAKXAAQQLVLSADNMEYLAAGAKERQRLATSLRNA 600
DB 538 PAPATPVPAPPPAAANTPNAQPGDPNAPADPPNAPPPVLAIPNAPQVVR----- 589
QY 601 AKAYGEVDEAAALNDGEGTQVABESAGAVGDS-----SAELTTPRAVATNAGEPNF- 653
DB 590 -----IDNPVGGSFPAIPAGWESDAAHFDYGSALLS-----KTTGDPPFP 630
QY 654 -----MDLKEARKLETGDOGASLAFADQWMTFNLTLQGVYKRFGRFD 697
DB 631 GQPPPAANDTRITVIGRLDQKLYSAEATDSCAAA-----RLSSDMSGF--YM 675
QY 698 NMEGDATACASLIDQORQWILHMAKLSAAMAKQAQVVAQLHWARRRHPTVEDIVGLER 757
DB 676 PYGTHINQETVSLD-----ANGVSGSASYEVKFSPPSKNGQIMVGVISPA 724
QY 758 LVAENSAAPQIILPVYAEYQORSEKULTEYNN-----KAALEPNVP-EKPPPAITDP 809
DB 725 ANAPDQGPQRMWVW-----LGTANNPVDKGAATALESIRPLVAPPAP-----P 770
QY 810 PPPQEGGLIGFLMPPSDSGSVTPGTMPAPAPVPPPTGSPGGGLPA 856
DB 771 APAPAPBA-----PAPAPAGVAP-----TPTTPTPQRTLPA 802

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RESULT 6
US-09-287-849-10
; Sequence 10, Application US/09287849

```

; Patent No. 6627198
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, David C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: And Their Uses
; FILE REFERENCES: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287, 849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818, 112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942, 578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025, 197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056, 556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223, 040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatencIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:tetra-fusion
US-09-287-849-10

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Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

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QY 1 MGHNNHHVVDIIGTSPTEWQAAAEVQARSDVDIRVARYEODMAVDSAGKITRYRI 60
DB 1 MGHNNHHVVDIIGTSPTEWQAAAEVQARSDVDIRVARYEODMAVDSAGKITRYRI 60
QY 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 120
DB 61 KLEVSFKMRPAQRCGSKPPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLYPLFWLWG 119
QY 121 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 180
DB 120 PAFHERYPNVTITTAQGTSGAGIAQAAAGTVNIGASDAYISEGDMAAHKGLMNIATAISA 179
QY 181 QQVNNYLPVSEHLKINGKTLAAMYGCTITKWDPPQIAALNPGVNLPGTAVVPLHRS DGS 240
DB 180 QQVNNYLPVSEHLKINGKTLAAMYGCTITKWDPPQIAALNPGVNLPGTAVVPLHRS DGS 239
QY 241 GDTFLLFTQVYSKODPEGMGKSPGFGTTVDPPAVPAGALGNGNGMTGCAETPGCVAYIG 300
DB 240 GDTFLLFTQVYSKODPEGMGKSPGFGTTVDPPAVPAGALGNGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAQLGSSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 360
DB 300 ISFLDQASQGLGEAQLGSSGNFLPDAQSIQAAAAGFASKTPANQAIMIDGPADGY 359
QY 361 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 420
DB 360 PIINYEAIYNNRQKAAATQTLQAFPLHMAITDGNKASFLDOVHFOPLPRAVVKLSALI 419
QY 421 ATISSAEMKTDATTLAQEAGNFERISGDLKTQIDOVSTAGSLQCGWRGAAGTAQAQAVV 480
DB 420 ATISSAEMKTDATTLAQEAGNFERISGDLKTQIDOVSTAGSLQCGWRGAAGTAQAQAVV 479
QY 481 RFOEANKKQKQBLDEISTNIRQAGVOYSRADBEQQAALSSQMGFTQSQTLYVDDQETILNR 540
DB 480 RFOEANKKQKQBLDEISTNIRQAGVOYSRADBEQQAALSSQMGFTV--PTTAAAPPTSTAAA 537

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QY 541 ANEVEAPMADPPTDVITPCELTAAKNAQOVLASDNREYLAAGKERORLATSLRNA 600
 Db 538 PPAPATPVAPPAAANTPNAQCPDPNAAPPADPNAPPPVIAAPNAQFVR-----589
 QY 601 AKAYGEVDEBAATLNDNDEGTVQAESAGAVGDS-----SAELDTTPRVATAGEBNF- 653
 Db 590 -----IDNPVGGFSFALPAGVNESDAAHFDYGSALLS-----KTTGDPFP 630
 QY 654 -----MDLKEARKLETGDOGASLAHFPADGWNFTNLTOGDYKRFKRGFD 697
 Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDMGCF--YM 675
 QY 698 NMEGDATACEASLDQORQWILHMAKLSAMAKQAQVVAQLHWAREHPTIEDIVGLER 757
 Db 676 PYGTRINQETVSLD-----ANGVSGSASYEVKFSDPSPKNGQIWTGIVGSPA 724
 QY 758 LVNENPSARDQILPVYAEYQORSEKVLTEYNN-----KAALFVNP-PKPPPAIKIDP 809
 Db 725 ANAPDAGPPQRMFVW-----LGTANNPVDKGAALAEISIRPLVAPPRA-----P 770
 QY 810 PPPPOGGLIPGLMPSPDSSGVTPTGMPAPAMVPPTGSPGGGLPA 856
 Db 771 AAPAPAPPA-----PAPAPAGEVAP-----TPTTPTPQRTLPA 802

RESULT 7
 US-10-193-002-209
 ; Sequence 209, Application US/10193002
 ; Patent No. 6949246

GENERAL INFORMATION:
 APPLICANT: Reed, Steven G.
 Skeiky, Yasir A.W.
 Dillon, Davin C.
 Campos-Neco, Antonia
 Houghton, Raymond
 Veddyck, Thomas S.
 Twardzik, Daniel R.
 Lodes, Michael J.
 Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
 TUBERCULOSIS
 NUMBER OF SEQUENCES: 350
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: USA
 ZIP: 98104-7092

COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/193.002
 FILING DATE: 10-Jul-2002
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/072.596
 FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:
 NAME: Makl, David J.

REGISTRATION NUMBER: 31,392
 REFERENCE/DOCKET NUMBER: 210121.417C9
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 209:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 802 amino acids
 TYPE: amino acid
 STRANDEDNESS: single

TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 209:
 US-10-193-002-209

Query Match 53.2%; Score 2700; DB 2; Length 802;
 Best Local Similarity 66.6%; Pred. No. 2, 6e-187;
 Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHVYIDITIGSPSTMEQAAEAQVARDSDVDIRVARIEDMAVDSAGKITYRI 60
 Db 1 MGHNNHHVYIDITIGSPSTMEQAAEAQVARDSDVDIRVARIEDMAVDSAGKITYRI 60
 QY 61 KLEVSFRMPAPORCGSKPPSGSPETGAGATVATTPASSPVYLAETGSLTLPFLNMG 120
 Db 61 KLEVSFRMPAPOR-CGSKPPSGSPETGAGATVATTPASSPVYLAETGSLTLPFLNMG 119
 QY 121 PAFHERYPNVTITTAQGTSGAGIAQAAGTWNIGASDAYLSEGDMAHKGNIALAISA 180
 Db 120 PAFHERYPNVTITTAQGTSGAGIAQAAGTWNIGASDAYLSEGDMAHKGNIALAISA 179
 QY 181 QQVNNVLPVSEHLKNGKYLAAHYGTTKTWDDPOLAALNPGVNPPTRAVYVLRHSDGS 240
 Db 180 QQVNNVLPVSEHLKNGKYLAAHYGTTKTWDDPOLAALNPGVNPPTRAVYVLRHSDGS 239
 QY 241 GDTFELFTQYLSKODPEGMGKSPGFGTTVDPPAPGALGEMNGMVTGCAETPGCVAYIG 300
 Db 240 GDTFELFTQYLSKODPEGMGKSPGFGTTVDPPAPGALGEMNGMVTGCAETPGCVAYIG 299
 QY 301 ISFLDQASQRLGEADLGNSSGNFLPDAQSIOAAAAGFASKTPANQAISMIDGPADGY 360
 Db 300 ISFLDQASQRLGEADLGNSSGNFLPDAQSIOAAAAGFASKTPANQAISMIDGPADGY 359
 QY 361 PIINYEYAIVNNRQKDAITQTLQAFLLHMAITDGNKASFLDQVHFQPLPAVYKLSDALI 420
 Db 360 PIINYEYAIVNNRQKDAITQTLQAFLLHMAITDGNKASFLDQVHFQPLPAVYKLSDALI 419
 QY 421 ATISSAEMKTDATLQAQENFPRISGDLKTOIDQVESTGSIQCGWRGAAGTAQAQAVV 480
 Db 420 ATISSAEMKTDATLQAQENFPRISGDLKTOIDQVESTGSIQCGWRGAAGTAQAQAVV 479
 QY 481 RPOEANKKQKQELDEISTNIRQAGVOYSPRADEQQOALSQSGFTQSQVTVVQOETLNR 540
 Db 480 RPOEANKKQKQELDEISTNIRQAGVOYSPRADEQQOALSQSGFTV--PTTAAAPPTTAA 537
 QY 541 ANEVEAPMADPPTDVITPCELTAAKNAQOVLASDNREYLAAGKERORLATSLRNA 600
 Db 538 PPAPATPVAPPAAANTPNAQCPDPNAAPPADPNAPPPVIAAPNAQFVR-----589
 QY 601 AKAYGEVDEBAATLNDNDEGTVQAESAGAVGDS-----SAELDTTPRVATAGEBNF- 653
 Db 590 -----IDNPVGGFSFALPAGVNESDAAHFDYGSALLS-----KTTGDPFP 630
 QY 654 -----MDLKEARKLETGDOGASLAHFPADGWNFTNLTOGDYKRFKRGFD 697
 Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAAA-----RLGSDMGCF--YM 675
 QY 698 NMEGDATACEASLDQORQWILHMAKLSAMAKQAQVVAQLHWAREHPTIEDIVGLER 757
 Db 676 PYGTRINQETVSLD-----ANGVSGSASYEVKFSDPSPKNGQIWTGIVGSPA 724
 QY 758 LVNENPSARDQILPVYAEYQORSEKVLTEYNN-----KAALFVNP-PKPPPAIKIDP 809
 Db 725 ANAPDAGPPQRMFVW-----LGTANNPVDKGAALAEISIRPLVAPPRA-----P 770
 QY 810 PPPPOGGLIPGLMPSPDSSGVTPTGMPAPAMVPPTGSPGGGLPA 856
 Db 771 AAPAPAPPA-----PAPAPAGEVAP-----TPTTPTPQRTLPA 802

RESULT 8
 US-10-193-002-346
 ; Sequence 346, Application US/10193002
 ; Patent No. 6949246

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 346:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 346:
US-10-193-002-346
Query Match 53.2%; Score 2700; DB 2; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-187;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

301 ISFLDQASQGLGPAQLGSSGNFLPDAOSIQAAAAGFASKTPANQAISMIDGAPDGY 360
300 ISFLDQASQGLGPAQLGSSGNFLPDAOSIQAAAAGFASKTPANQAISMIDGAPDGY 359
361 PIINVEYAIYNNOKDAATQTLQAFIHMATITGNKASFLDQVHFQPLPAVVVLSALI 420
360 PIINVEYAIYNNOKDAATQTLQAFIHMATITGNKASFLDQVHFQPLPAVVVLSALI 419
421 ATISSAEMKTDATLQAGNPERISGDLTKQIDQVSTAGSLQGRGAAGTAQAQAVV 480
420 ATISSAEMKTDATLQAGNPERISGDLTKQIDQVSTAGSLQGRGAAGTAQAQAVV 479
481 RPEAANKQKQELDEISTNIRQAGVYRADEEQALSSQMGFTQSVTVVDOEILNR 540
480 RPEAANKQKQELDEISTNIRQAGVYRADEEQALSSQMGFTV--PTTAASPPSTAAA 537
541 ANEYEAAMDPPDVPITPCELTAKRAAQQVLISADNMEYLAAGKEXORLATSLRNA 600
538 PPAPATVPAPPPPAANTPNAQPGDPNAPPPADPNAPPPVIAFNAPQVPR----- 589
601 AKAYGEVDEAATVALDNDGEGTVQAESGAVGDS-----SALETDTPRVATAGEBNF- 653
590 -----IDNPVGGFSFALPAGWVESDAAHFVYGSALLS-----KTGDPPFP 630
654 -----NDLKEARKLETGQASLAHFADQWNTFNLQGDVRRFRGFD 697
631 GQPPVANDTRIVLGRDQKLVASAENTDSKAAA-----RLSDMEF--YM 675
698 NMBGDAATCEASLDQQRQWILHMAKLSAAMAKQAVQAOLHWAREHPYEDIVGLER 757
676 PYRGTIRINQETSID-----ANGVSGSASYEVEFSPDSKDNQOIWTCVIGSPA 724
758 LVANEPARQQLIPYVAEYQORSKULTEYNN-----KALEPVP-EPKPPAIDP 809
725 ANPDAGPPQKRFVW-----LGTANNPVDKAALAEISIRPLVAPPAP---P 770
810 PPPROEGILPFLMPPSDSGVTPTGMPAPVPPPTGSPGGGLPA 856
771 AP 802
RESULT 9
US-10-084-843-214
Sequence 214, Application US/10084843
Patent No. 6962710
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: AND DIAGNOSIS OF IMMUNOTHERAPY
TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002


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? CLASSIFICATION : <Unknown>
? PRIOR APPLICATION DATA :
? APPLICATION NUMBER : US/09/072,967
? FILING DATE : 05-MAY-1998
? ATTORNEY/AGENT INFORMATION :
? NAME : Makl, David J.
? REGISTRATION NUMBER : 31,392
? REFERENCE/DOCKET NUMBER : 210121..411C9
? TELECOMMUNICATION INFORMATION :
? TELEPHONE : (206) 622-4900
? TELEFAX : (206) 682-6031
? INFORMATION FOR SEQ ID NO: 214:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 802 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? SEQUENCE DESCRIPTION: SEQ ID NO: 214:
US-10-084-843--214

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Query Match	53.2%;	Score 2700;	DB 2;	Length 802;
Best Local Similarity	66.6%;	Pred. No. 2.6e-187;		
Matches 591;	Conservative 27;	Mismatches 153;	Indels 116;	Gaps 15

Qy	1	MGHHHHHHYID1IGSTPTSEMOAAAEAVORADSDVD1RVARVIEODMAVDSACKITYRI	60
Qy	1	MGHHHHHHYID1IGSTPTSEMOAAAEAVORADSDVD1RVARVIEODMAVDSACKITYRI	60
Db	1	MGHHHHHHYID1IGSTPTSEMOAAAEAVORADSDVD1RVARVIEODMAVDSACKITYRI	60
Qy	61	KLEVSFKMRPAOPRCSGSKPPSGSPETGAGATVATTPASSPVTLAETGSTLYLPEFLNMG	120
Qy	61	KLEVSFKMRPAOPRCSGSKPPSGSPETGAGATVATTPASSPVTLAETGSTLYLPEFLNMG	120
Db	61	KLEVSFKMRPAOPRCSGSKPPSGSPETGAGATVATTPASSPVTLAETGSTLYLPEFLNMG	119
Qy	121	PAHHEXYPNVTTTAAQGTSGAGIAQAAGTVNIGASDIYLSBGDMAAHKGMNTALISA	180
Qy	121	PAHHEXYPNVTTTAAQGTSGAGIAQAAGTVNIGASDIYLSBGDMAAHKGMNTALISA	180
Db	120	PAHHEXYPNVTTTAAQGTSGAGIAQAAGTVNIGASDIYLSBGDMAAHKGMNTALISA	179
Qy	181	QQNVNVLPGVSEHLKXNGKVLAAMYOGTITKTMDDPQIALNPGVNLPGETAVALPHRSDG	240
Qy	181	QQNVNVLPGVSEHLKXNGKVLAAMYOGTITKTMDDPQIALNPGVNLPGETAVALPHRSDG	240
Db	180	QQNVNVLPGVSEHLKXNGKVLAAMYOGTITKTMDDPQIALNPGVNLPGETAVALPHRSDG	239
Qy	241	GDTFLFTOYLSKODPEGMGSKSPGFGTIVDPFPAVPALGENDNGGVNGSCAETPGCVAYIG	300
Qy	241	GDTFLFTOYLSKODPEGMGSKSPGFGTIVDPFPAVPALGENDNGGVNGSCAETPGCVAYIG	300
Db	240	GDTFLFTOYLSKODPEGMGSKSPGFGTIVDPFPAVPALGENDNGGVNGSCAETPGCVAYIG	299
Qy	301	ISFLDQASORGLCEAOLGNSGNFLLPDAQOSTIOAAAAGPASKTPRANQAIISMTDPAVDG	360
Qy	301	ISFLDQASORGLCEAOLGNSGNFLLPDAQOSTIOAAAAGPASKTPRANQAIISMTDPAVDG	360
Db	300	ISFLDQASORGLCEAOLGNSGNFLLPDAQOSTIOAAAAGPASKTPRANQAIISMTDPAVDG	359
Qy	361	PIINYEYALVNNRKOXAATAQTLQALFLHMAITDNGKASFLOVYHOPRPPRVVVLGSPALI	420
Qy	361	PIINYEYALVNNRKOXAATAQTLQALFLHMAITDNGKASFLOVYHOPRPPRVVVLGSPALI	420
Db	360	PIINYEYALVNNRKOXAATAQTLQALFLHMAITDNGKASFLOVYHOPRPPRVVVLGSPALI	419
Qy	421	ATISSAEMTKTDATTLAQAENFERISGDJKTQIDPVESTAGSLQOMRGAGTAQAQAVV	480
Qy	421	ATISSAEMTKTDATTLAQAENFERISGDJKTQIDPVESTAGSLQOMRGAGTAQAQAVV	480
Db	420	ATISSAEMTKTDATTLAQAENFERISGDJKTQIDPVESTAGSLQOMRGAGTAQAQAVV	479
Qy	481	RFOEAAANKOKOIBEISTINIROAGVOYSPADEEQOALSSOMGFTOSQTVTDQOETILNR	540
Qy	481	RFOEAAANKOKOIBEISTINIROAGVOYSPADEEQOALSSOMGFTOSQTVTDQOETILNR	540
Db	480	RFOEAAANKOKOIBEISTINIROAGVOYSPADEEQOALSSOMGFV--PTTAAESPSTAAA	537
Qy	541	ANVEAELPMADPPDIVITPCELTAKMAAQOVLVSADMMREYLAAGAKEKERRLATISLRNA	600
Qy	541	ANVEAELPMADPPDIVITPCELTAKMAAQOVLVSADMMREYLAAGAKEKERRLATISLRNA	600
Db	538	PPAPATPVAPPPPAANATPNAPQGPDPNAPPPADENAPPPVIVAPNAPQVR-----	589
Qy	601	AKAYGEVDEBEAATLAINDEGTVQAESAGAVEGDS-----SAELTDPTRVALTAGBNF-	653
Qy	601	AKAYGEVDEBEAATLAINDEGTVQAESAGAVEGDS-----SAELTDPTRVALTAGBNF-	653
Db	590	-----INPVGGSFSLPACWVESDAAHNDYGSALLS-----KTTGDPPFP	630
Qy	654	-----MDLKEARKLETGDQASLHAFADGMNTFNLTLQDVYKFRGFD	697
Qy	654	-----MDLKEARKLETGDQASLHAFADGMNTFNLTLQDVYKFRGFD	697
Db	631	GQPPVANDTRIVLGRLDQKLYASAEATDSKAAA-----RLSGDMEF--YM	675
Qy	698	NMEGDATACEASLDQOROWIILHMAKLSAAMAKQOYVALQULHWARKREHNPYEDIVGLER	757

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Db      676  PYRGTRINQETVSLD-----ANGVSGSASYEVKRSKNGQIMWGVLGSPA 724
      676  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Qy      758  LVANPSARDQILPYAAYQQRSEKVTLEYNN-----KALEPVPN-EKPPAATIDP 809
      758  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      725  ANPFDGPPQRFWFVW-----LGTANNPVYDKGAKKLASIRPLVAPPPA----P 770
      725  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Qy      810  PPPPQGGQLIPGFLMPSDSGVTPTGCTMPAPAPVWPPIPSGGGLPA 856
      810  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      771  APAPAPPA-----PAPAPAGEVAP-----TPTTPTPTQRLTPA 802
      771  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

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RESULT 10

; Sequence 351, Application US/10084843
; Patent No. 6962710

Query Match 53.2%; Score 2700; DB 2; Length 802;

[illegible]


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QY 61 KLEVSFKRRPAQPRCGSKPSPGSPETGAGTAVATTASSPVTLAETGSLTLLYPLFNLWG 120
Db 61 KLEVSFKRRPAQPR-GSKPSPGSPETGAGTAVATTASSPVTLAETGSLTLLYPLFNLWG 119
QY 121 PAFERFPNWTITTOGTSSGAGIAQAAGTGNIGASDYLSEGGMAAHKGLMNTALAIISA 180
Db 120 PAFERFPNWTITTOGTSSGAGIAQAAGTGNIGASDYLSEGGMAAHKGLMNTALAIISA 179
QY 181 QOVVYNLPVSEHLKLNKLVLAAYOQTIKTWDDPOJALNPGVNLPGTAVVPLHRSDGS 240
Db 180 QOVVYNLPVSEHLKLNKLVLAAYOQTIKTWDDPOJALNPGVNLPGTAVVPLHRSDGS 239
QY 241 GDTLFLFOYLSKQDPEWGKSPGGTGYDPPAPVPCALGNGMGMVTCGCAETPGCVAYIG 300
Db 240 GDTLFLFOYLSKQDPEWGKSPGGTGYDPPAPVPCALGNGMGMVTCGCAETPGCVAYIG 299
QY 301 ISFLDQASQRLGSAQJGNSGNFLPLPDQOSIOAAAAGFASKTPANQALSMIDGPADPGY 360
Db 300 ISFLDQASQRLGSAQJGNSGNFLPLPDQOSIOAAAAGFASKTPANQALSMIDGPADPGY 359
QY 361 PIINVEYAIVNNROKDAATAQTLQAFILHMAITDGNKASFLLDQVHFQPLPPAVVLSDALI 420
Db 360 PIINVEYAIVNNROKDAATAQTLQAFILHMAITDGNKASFLLDQVHFQPLPPAVVLSDALI 419
QY 421 ATISSAEKMTDAATLQAGNFERISGDLKTQIDQVESTAGSLQGMNGAAATAQAAYV 480
Db 420 ATISSAEKMTDAATLQAGNFERISGDLKTQIDQVESTAGSLQGMNGAAATAQAAYV 479
QY 481 RFOGANKOKOELDEISTNITQAGVOYSRADBEQOALSSQMGTOGQSTVTVDQOELINR 540
Db 480 RFOGANKOKOELDEISTNITQAGVOYSRADBEQOALSSQMGTOGQSTVTVDQOELINR 537
QY 541 ANEVEAPADPPTVPIPCETLTAQNAQOOLVLSADNMRREYLAAGAKERQRLATSLRNA 600
Db 538 PPAATVAPPPPAATTPNAQOPDPPNAPPPAPPPAPPPVIAIPNAPQPR----- 589
QY 601 AKAYGEVDEEATAALDNDGEGTQAESAGAVGDS-----SABLTPTRVATAGEBNF- 653
Db 590 -----IDNPVGGSFALPAGVWESDAAHFDVGSALLS-----KTTGDDPPFP 630
QY 654 -----MDLKAARKLETGQGSALAHFADGWMNTFNLTQGDVYKFRFGFD 697
Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAA-----RLGSDMGEF--YM 675
QY 698 NMEGDATACBASLDQQRQWILHMAKLSAAMAKOAYVQOLHVMAREHPYEDIVGLER 757
Db 676 PYPETRINQETVSLD-----ANGVSGSASYEVKFSDPKNGQIWTGVSIPA 724
QY 758 LYAENPSARDQILPVYAEOQRSEKVLTEYNN-----KALEPVNP-PKPPAIKIDP 809
Db 725 ANAPDAGPPQKWFVW-----LGTANNPVYDKGAARLALASIRPVAPPPA-----P 770
QY 810 PPPPOGGLIPGLMPPSDSGVTPTGMPAPVPPPTGSPGGLPA 856
Db 771 APAPAEBA-----PAPAPAGEVAP-----TPTPTPQRLTPA 802

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RESULT 11
US-09-056-556-184
; Sequence 184, Application US/09056556
; Patent No. 6350456
;
GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA

```

```

; ZIP: 98104-7092
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-Apr-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 184:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 460 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
;
US-09-056-556-184
Query Match 46.8%; Score 2375; DB 2; Length 460;
Best Local Similarity 100.0%; Pred. No. 4,4e-164;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 525 TOSQTVTDQOELINRANEVAPADPPTVPIPCETLTAQNAQOOLVLSADNMRREYLA 584
Db 2 TOSQTVTDQOELINRANEVAPADPPTVPIPCETLTAQNAQOOLVLSADNMRREYLA 61
QY 585 AGAKERQRLATSLRNAKAYGEVDEEATAALDNDGEGTQAESAGAVGDSABLTPR 644
Db 62 AGAKERQRLATSLRNAKAYGEVDEEATAALDNDGEGTQAESAGAVGDSABLTPR 121
QY 645 VATAGEBNFMDLKEAARKLETGQGSALAHFADGWMNTFNLTQGDVYKFRFGFDNMEGDA 704
Db 122 VATAGEBNFMDLKEAARKLETGQGSALAHFADGWMNTFNLTQGDVYKFRFGFDNMEGDA 181
QY 705 TACBASLDQQRQWILHMAKLSAAMAKOAYVQOLHVMAREHPYEDIVGLERLYAENPS 764
Db 182 TACBASLDQQRQWILHMAKLSAAMAKOAYVQOLHVMAREHPYEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEOQRSEKVLTEYNNKALBPVNPPEKPPAIKIDPPPPPOGGLIPGLM 824
Db 242 ARDQILPVYAEOQRSEKVLTEYNNKALBPVNPPEKPPAIKIDPPPPPOGGLIPGLM 301
QY 825 PPSPDSGVTPTGMPAPVPPPTGSPGGLPADTAAQLTSAGREAAALSGDVAVKASLIG 884
Db 302 PPSPDSGVTPTGMPAPVPPPTGSPGGLPADTAAQLTSAGREAAALSGDVAVKASLIG 361
QY 885 GGGGGVPSAPLGSALGASVVRPAGADTAGCGRAGGGAALGGGGMGMPGAHAQOQ 944
Db 362 GGGGGVPSAPLGSALGASVVRPAGADTAGCGRAGGGAALGGGGMGMPGAHAQOQ 421
QY 945 GGAKSQSGQDEALYTEDRAWTEAVIGNRRQDSKSK 983
Db 422 GGAKSQSGQDEALYTEDRAWTEAVIGNRRQDSKSK 460

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RESULT 12
US-09-072-596-179
; Sequence 179, Application US/09072596
; Patent No. 6458366
;
GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedwick, Thomas S.

```

APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 179:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-596-179

Query Match 46.8%; Score 2375; DB 2; Length 460;
Best Local Similarity 100.0%; Pred. No. 4.4e-164;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVDDOELINRANEVEAPADPTDVPITPCBLTAAXNAQOVLVSADNMRXYLA 584
DB 2 TOSQTVVDDOELINRANEVEAPADPTDVPITPCBLTAAXNAQOVLVSADNMRXYLA 61
QY 585 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVAESAGAVGDSASALTDTPR 644
DB 62 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVAESAGAVGDSASALTDTPR 121
QY 645 VATAGEBNFMDLKEARKLETGDOGASLAFADGNTFNTLLQGDVXKFRFGFDNWECDAA 704
DB 122 VATAGEBNFMDLKEARKLETGDOGASLAFADGNTFNTLLQGDVXKFRFGFDNWECDAA 181
QY 705 TACEASLDDQOROWILHMAKISAAAKAQVVAQLHWARRHEHTYEDIVGLERLYAENPS 764
DB 182 TACEASLDDQOROWILHMAKISAAAKAQVVAQLHWARRHEHTYEDIVGLERLYAENPS 241
QY 765 ARDDILVVAEYOORSEKVLTEYNKKALEPNVPKPPPAIKIDPPPPPOGGLIPGFLM 824
DB 242 ARDDILVVAEYOORSEKVLTEYNKKALEPNVPKPPPAIKIDPPPPPOGGLIPGFLM 301
QY 825 PPSDGSVTPGTGMPAPMVPPTGSPGGGLPADTAAQUTSAGREAAALSGDVAVKAASLG 884
DB 302 PPSDGSVTPGTGMPAPMVPPTGSPGGGLPADTAAQUTSAGREAAALSGDVAVKAASLG 361
QY 885 GGGGGGVPAPLGSALIGASVRCAGADTIGLQGGAGGAGALGGGGMGMPMAAGQ 944
DB 362 GGGGGGVPAPLGSALIGASVRCAGADTIGLQGGAGGAGALGGGGMGMPMAAGQ 421
QY 945 GGAASKSGQOEDEALYTEDRAWTEAVIGNRRRODSKSK 983
DB 422 GGAASKSGQOEDEALYTEDRAWTEAVIGNRRRODSKSK 460

RESULT 13

US-09-072-967-184
Sequence 184, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 184:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-072-967-184

Query Match 46.8%; Score 2375; DB 2; Length 460;
Best Local Similarity 100.0%; Pred. No. 4.4e-164;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVDDOELINRANEVEAPADPTDVPITPCBLTAAXNAQOVLVSADNMRXYLA 584
DB 2 TOSQTVVDDOELINRANEVEAPADPTDVPITPCBLTAAXNAQOVLVSADNMRXYLA 61
QY 585 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVAESAGAVGDSASALTDTPR 644
DB 62 AGAKERORLATSLRNAKAYGEVDEEATATLDNDGEGTVAESAGAVGDSASALTDTPR 121
QY 645 VATAGEBNFMDLKEARKLETGDOGASLAFADGNTFNTLLQGDVXKFRFGFDNWECDAA 704
DB 122 VATAGEBNFMDLKEARKLETGDOGASLAFADGNTFNTLLQGDVXKFRFGFDNWECDAA 181
QY 705 TACEASLDDQOROWILHMAKISAAAKAQVVAQLHWARRHEHTYEDIVGLERLYAENPS 764
DB 182 TACEASLDDQOROWILHMAKISAAAKAQVVAQLHWARRHEHTYEDIVGLERLYAENPS 241
QY 765 ARDDILVVAEYOORSEKVLTEYNKKALEPNVPKPPPAIKIDPPPPPOGGLIPGFLM 824
DB 242 ARDDILVVAEYOORSEKVLTEYNKKALEPNVPKPPPAIKIDPPPPPOGGLIPGFLM 301
QY 825 PPSDGSVTPGTGMPAPMVPPTGSPGGGLPADTAAQUTSAGREAAALSGDVAVKAASLG 884

Db 302 PPDSGVTGTGTGMPALPMVPTTSSPGGGLPADTAOULTSAGREAAALSGDVAVKASLSG 361

Qy 885 GGGGGVPSAPLGSALGASVPRPAGADTAGLQGRAGGAGALGGGGMGMPGAHQG 944

Db 362 GGGGGVPSAPLGSALGASVPRPAGADTAGLQGRAGGAGALGGGGMGMPGAHQG 421

Qy 945 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRDSKSK 983

Db 422 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRDSKSK 460

RESULT 14

US-10-193-002-179

Sequence 179, Application US/10193002

Patent No. 6949246

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.

Dillon, David C.

Campos-Neto, Antonio

Houghton, Raymond

Vedrick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193.002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31.392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 179:

SEQUENCE CHARACTERISTICS:

LENGTH: 460 amino acids

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 179:

US-10-193-002-179

Query Match 46.8%; Score 2375; DB 2; Length 460;

Best Local Similarity 100.0%; Pred. No. 4.4e-164;

Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 525 TGGGTATVDDOETLRANVEAPADPTVPTPCSLTAAKNAAGQVLISADMMREYLA 584

Db 2 TGGGTATVDDOETLRANVEAPADPTVPTPCSLTAAKNAAGQVLISADMMREYLA 61

Qy 585 AGAKERQRLATSLRNAKAYGEVDEERATLNDNDEGTVOAESAGAVGDSSELTDTPR 644

Db 62 AGAKERQRLATSLRNAKAYGEVDEERATLNDNDEGTVOAESAGAVGDSSELTDTPR 121

Qy 645 VATAGEBNFMDLKEAARKLETGOGASLAFADGNTFNLTQGDVRFQFDNMEGDAA 704

Db 122 VATAGEBNFMDLKEAARKLETGOGASLAFADGNTFNLTQGDVRFQFDNMEGDAA 181

Qy 705 TACEASIDQOROWILHMAKLSAAMAKOAYVAOLHVARREHPYEDI VGLERLYAENPS 764

Db 182 TACEASIDQOROWILHMAKLSAAMAKOAYVAOLHVARREHPYEDI VGLERLYAENPS 241

Qy 765 ARDQILPVAYEYQORSEKULTYNNKALFEPVPPKPPALKIDPPPPQOGILIPETIM 824

Db 242 ARDQILPVAYEYQORSEKULTYNNKALFEPVPPKPPALKIDPPPPQOGILIPETIM 301

Qy 825 PPDSGVTGTGTGMPALPMVPTTSSPGGGLPADTAOULTSAGREAAALSGDVAVKASLSG 884

Db 302 PPDSGVTGTGTGMPALPMVPTTSSPGGGLPADTAOULTSAGREAAALSGDVAVKASLSG 361

Qy 885 GGGGGVPSAPLGSALGASVPRPAGADTAGLQGRAGGAGALGGGGMGMPGAHQG 944

Db 362 GGGGGVPSAPLGSALGASVPRPAGADTAGLQGRAGGAGALGGGGMGMPGAHQG 421

Qy 945 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRDSKSK 983

Db 422 GGAAGSGSQDEALYTEDRAWTEAVIGNRRRDSKSK 460

RESULT 15

US-10-084-843-184

Sequence 184, Application US/10084843

Patent No. 6962710

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.

Dillon, David C.

Campos-Neto, Antonio

Houghton, Raymond

Vedrick, Thomas S.

Twardzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/084.843

FILING DATE: 25-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.967

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31.392

REFERENCE/DOCKET NUMBER: 210121.411C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 184:

SEQUENCE CHARACTERISTICS:

LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 184:
US-10-084-843-184

Query Match 46.8%; Score 2375; DB 2; Length 460;

Best Local Similarity 100.0%; Pred. No. 4.4e-164;

Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	525	TOSQTVVDDOEITLRANEVEAPWADPPTDVPTPCETLTAKNAAQOLVLSADNREYLA	584
DB	2	TQSQTVVDDOEITLRANEVEAPWADPPTDVPTPCETLTAKNAAQOLVLSADNREYLA	61
QY	585	AGAKERQRLATSLRNAKAYGEVDEEAATLNDDEGTVQASAGAVGDSSELTDTPR	644
DB	62	AGAKERQRLATSLRNAKAYGEVDEEAATLNDDEGTVQASAGAVGDSSELTDTPR	121
QY	645	VATAGEPNFMDLKEAAKLETGDOGASLAHPADGWNTPNLTLOGDVXRFPGFNWEGDAA	704
DB	122	VATAGEPNFMDLKEAAKLETGDOGASLAHPADGWNTPNLTLOGDVXRFPGFNWEGDAA	181
QY	705	TACEASLDDQROWTLHMAKLSAAMAKAOYVAQLHWARRRHPTVEDIVGLERYAENPS	764
DB	182	TACEASLDDQROWTLHMAKLSAAMAKAOYVAQLHWARRRHPTVEDIVGLERYAENPS	241
QY	765	ARDQILPVVAEYQORSEKVLTEYNNKAALFVNPPEKPPPAIKIDPPPOEGILPGFLM	824
DB	242	ARDQILPVVAEYQORSEKVLTEYNNKAALFVNPPEKPPPAIKIDPPPOEGILPGFLM	301
QY	825	PPSDGSGVTPTGTMPAAPVVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAASLG	884
DB	302	PPSDGSGVTPTGTMPAAPVVPPTGSPGGGLPADTAAQLTSAGREAAALSGDVAVKAASLG	361
QY	885	GGGGGGVPSAPLGSATGSAESVPRPAGDIAGCGGAGGGAALGGGGMGMPMGAAHQGQ	944
DB	362	GGGGGGVPSAPLGSATGSAESVPRPAGDIAGCGGAGGGAALGGGGMGMPMGAAHQGQ	421
QY	945	GGAKSKSGQOEDALYTEDRAWTEAVIGNRRRODSKESK	983
DB	422	GGAKSKSGQOEDALYTEDRAWTEAVIGNRRRODSKESK	460

Search completed: February 3, 2006, 17:02:28
Job time : 74.3819 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 3, 2006, 17:28:10 ; Search time 227.768 Seconds
(without alignments)
1803.263 Million cell updates/sec

Title: US-09-688-672a-54

Perfect score: 5072
Sequence: 1 MGHHHHHVIDIITGTSPTSM.....RAWTEAVIGNRRRQDSKSK 983Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications_AA_Main:*

- 1: /cgn2_6/prodata/1/pubppa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/prodata/1/pubppa/US08_PUBCOMB.pep:*
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- 4: /cgn2_6/prodata/1/pubppa/US10A_PUBCOMB.pep:*
- 5: /cgn2_6/prodata/1/pubppa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/prodata/1/pubppa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2700	53.2	802	3	US-09-287-849-10 Sequence 10, Appl
2	2700	53.2	802	4	US-10-193-002-209 Sequence 209, App
3	2700	53.2	802	4	US-10-193-002-346 Sequence 346, App
4	2700	53.2	802	4	US-10-084-843-214 Sequence 214, App
5	2700	53.2	802	4	US-10-084-843-351 Sequence 351, App
6	2700	53.2	802	4	US-10-359-460-10 Sequence 10, Appl
7	2700	53.2	802	6	US-11-028-898-214 Sequence 214, App
8	2700	53.2	802	6	US-11-028-898-351 Sequence 351, App
9	2700	53.2	802	6	US-11-082-005-209 Sequence 209, App
10	2700	53.2	802	6	US-11-082-005-346 Sequence 346, App
11	2375	46.8	460	4	US-10-193-002-179 Sequence 179, App
12	2375	46.8	460	4	US-10-084-843-184 Sequence 184, App
13	2375	46.8	460	5	US-10-510-021-71 Sequence 71, Appl
14	2375	46.8	460	6	US-11-028-898-184 Sequence 184, App
15	2375	46.8	460	6	US-11-082-005-179 Sequence 179, App
16	1839	36.3	652	4	US-10-193-002-350 Sequence 350, App
17	1839	36.3	652	4	US-10-084-843-355 Sequence 355, App
18	1839	36.3	652	6	US-11-028-898-355 Sequence 355, App
19	1839	36.3	652	6	US-11-082-005-350 Sequence 350, App
20	1831	36.1	374	3	US-09-287-849-6 Sequence 6, Appl
21	1831	36.1	374	3	US-09-287-849-40 Sequence 40, Appl
22	1831	36.1	374	4	US-10-193-002-148 Sequence 148, Appl
23	1831	36.1	374	4	US-10-193-002-150 Sequence 150, App
24	1831	36.1	374	4	US-10-084-843-153 Sequence 153, App
25	1831	36.1	374	4	US-10-084-843-155 Sequence 155, App
26	1831	36.1	374	4	US-10-359-460-6 Sequence 6, Appl
27	1831	36.1	374	4	US-10-359-460-6 Sequence 6, Appl

28	1831	36.1	374	4	US-10-359-460-40 Sequence 40, Appl
29	1831	36.1	374	4	US-10-098-732A-39 Sequence 39, Appl
30	1831	36.1	374	4	US-10-332-512A-5 Sequence 5, Appl
31	1831	36.1	374	6	US-11-028-898-153 Sequence 153, App
32	1831	36.1	374	6	US-11-028-898-155 Sequence 155, App
33	1831	36.1	374	6	US-11-082-005-148 Sequence 148, App
34	1831	36.1	374	6	US-11-082-005-150 Sequence 150, App
35	791	15.6	166	4	US-10-193-002-90 Sequence 90, Appl
36	791	15.6	166	4	US-10-084-843-89 Sequence 89, Appl
37	791	15.6	166	6	US-11-028-898-89 Sequence 89, Appl
38	791	15.6	166	6	US-11-082-005-90 Sequence 90, Appl
39	485	9.6	100	4	US-10-080-170-639 Sequence 639, App
40	485	9.6	100	4	US-10-193-002-110 Sequence 110, App
41	485	9.6	100	4	US-10-084-843-115 Sequence 115, App
42	485	9.6	100	4	US-10-080-170-639 Sequence 639, App
43	485	9.6	100	4	US-10-468-356-639 Sequence 639, App
44	485	9.6	100	5	US-10-520-084-37 Sequence 37, Appl
45	485	9.6	100	5	US-10-510-021-64 Sequence 64, Appl

ALIGNMENTS

RESULT 1
US-09-287-849-10
Sequence 10, Application US/09287849
Patent No. US20020009459A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillion, Davin C.
APPLICANT: Alderson, Mark
APPLICANT: Campos-Neto, Antonio
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
FILE REFERENCE: 014058-009020US
CURRENT APPLICATION NUMBER: US/09/287,849
CURRENT FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: US 08/818,112
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 08/942,578
PRIOR FILING DATE: 1997-10-01
PRIOR APPLICATION NUMBER: US 09/025,197
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 09/056,556
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: US 09/223,040
PRIOR FILING DATE: 1998-12-30
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 10
LENGTH: 802
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:tetra-fusion
US-09-287-849-10
Query Match 53.2%; Score 2700; DB 3; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;
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DB 1 MGHHHHHVIDIITGTSPTSMQAAAEVAVRARDVDIVRVIEDMAVDSAGKITRYI 60
QY 61 KLEVSFKMPAPRCGSKRPSGSPETGAGAGVATTPASSPTLATGSLTLYPLFNWG 120
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QY 121 PAFHERYPTVTTTAQGTSGAGIAQAAAGTVNIGASDAYLSEGDMAHAGLMMIALAISA 180
DB 121 PAFHERYPTVTTTAQGTSGAGIAQAAAGTVNIGASDAYLSEGDMAHAGLMMIALAISA 180

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Db 120 PAFHERYVNTTITTAOCTGSGAGIAQAAGTAVNIGASDAYLSBGDMAHKGIMNIALAISA 179
Qy 181 QQVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 240
Db 180 QQVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 239
Qy 241 GDTFLFTQYLSKQDPBGWKS PFGTTVDPPAVPAGALGENGGMVTCGETPGCVAAYIG 300
Db 240 GDTFLFTQYLSKQDPBGWKS PFGTTVDPPAVPAGALGENGGMVTCGETPGCVAAYIG 299
Qy 301 ISFLDASQRLGAEALGNSSGNFLPDAQSIQAAAAGFASKTPANQALSMIDGAPDGY 360
Db 300 ISFLDASQRLGAEALGNSSGNFLPDAQSIQAAAAGFASKTPANQALSMIDGAPDGY 359
Qy 361 PIINVEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 420
Db 360 PIINVEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 419
Qy 421 ATISSAEMTKDAATTLAQAENFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAQAAYV 480
Db 420 ATISSAEMTKDAATTLAQAENFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAQAAYV 479
Qy 481 RFOEANKOKOELDEISTINRQAGVQYSRADDEQQALSSQMGFV--PTTAASPPSTAAA 540
Db 480 RFOEANKOKOELDEISTINRQAGVQYSRADDEQQALSSQMGFV--PTTAASPPSTAAA 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOLVLSADNREYLAAGAKERORLATSLRNA 600
Db 538 PPAAPATPVAPPAAANTPNAQCPDPNAAPPAPPAAPPAAPPAAPPAAPPAAPPAAPPA 589
Qy 601 AARAYGEVDEBAALNDDEGTVQASAGAVGDS-----SALDTPRVAIANGENF- 653
Db 590 -----IDNPVGFSFALPAGVNESDAAHFDYGSALLS-----KTTGDPFPF 630
Qy 654 -----MDLKEARKLETGPOGASLHAFADGMNTFNLTLQGVKRFPGFD 697
Db 631 GQPPPAANDTRIVLGRDQKLYASAKTDSKAAA-----RLSDWGEF--YM 675
Qy 698 NMEGDATAACEASLDQORWILMAKLSAAMAKOAYVQALHWARRHPHYEDIVGLER 757
Db 676 PYGTRINQETVSLD-----ANGVSGSASYEVKFPSPSKNGQIMVGVISPA 724
Qy 758 LVAENASARDQILPYVAEYQORSEKULTEYN-----KAALFPVNP-KPPPAKIDP 809
Db 725 ANAPDAGPQRMVW-----LGTANNPVDKGAALAESIRPLVAPPBA-----P 770
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Db 771 APAPAPPA-----PAPAPAGEVAP-----TPPTTPPQRTLPA 802

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RESULT 2
US-10-193-002-209
Sequence 209, Application US/10193002
Publication No. US20030135026A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonia
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington

```

```

? COUNTRY: USA
? ZIP: 98104-7092
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/10/193, 002
? FILING DATE: 10-Jul-2002
? CLASSIFICATION: <Unknown>
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US/09/072, 596
? FILING DATE: 05-MAY-1998
? ATTORNEY/AGENT INFORMATION:
? NAME: Maki, David J.
? REGISTRATION NUMBER: 31,392
? REFERENCE/DOCKET NUMBER:
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (206) 622-4900
? TELEFAX: (206) 682-6031
? INFORMATION FOR SEQ ID NO: 209:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 802 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? SEQUENCE DESCRIPTION: SEQ ID NO: 209:
US-10-193-002-209

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Query Match 53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2, 6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

Qy 1 MGHNNHHNHYDIIIGTSPTEMEQAAAEAVQARADSVDDIRVARYTEODMAVDSAGKITTYRI 60
Db 1 MGHNNHHNHYDIIIGTSPTEMEQAAAEAVQARADSVDDIRVARYTEODMAVDSAGKITTYRI 60
Qy 61 KLEVSFKMRPAQRCSSKPPSSPBTGAGATVATTASSPVTLTAETGTLTYPLNLWG 120
Db 61 KLEVSFKMRPAQRC--GSKPPSGSPBTGAGATVATTASSPVTLTAETGTLTYPLNLWG 119
Qy 121 PAFHERYVNTTITTAOCTGSGAGIAQAAGTAVNIGASDAYLSBGDMAHKGIMNIALAISA 180
Db 120 PAFHERYVNTTITTAOCTGSGAGIAQAAGTAVNIGASDAYLSBGDMAHKGIMNIALAISA 179
Qy 181 QQVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 240
Db 180 QQVNVNLPVSEHKLKNGKVLAAAYOGTITKTMDDPQIAALNPGVNLPGTAVVPLHRSDGS 239
Qy 241 GDTFLFTQYLSKQDPBGWKS PFGTTVDPPAVPAGALGENGGMVTCGETPGCVAAYIG 300
Db 240 GDTFLFTQYLSKQDPBGWKS PFGTTVDPPAVPAGALGENGGMVTCGETPGCVAAYIG 299
Qy 301 ISFLDASQRLGAEALGNSSGNFLPDAQSIQAAAAGFASKTPANQALSMIDGAPDGY 360
Db 300 ISFLDASQRLGAEALGNSSGNFLPDAQSIQAAAAGFASKTPANQALSMIDGAPDGY 359
Qy 361 PIINVEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 420
Db 360 PIINVEYAVNNRQKDAATQTLQAFILHMAITDGNKASFLDQVHFQPLPRAVVKLSDALI 419
Qy 421 ATISSAEMTKDAATTLAQAENFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAQAAYV 480
Db 420 ATISSAEMTKDAATTLAQAENFERISGDLKTQIDQVESTAGSLQGWGGAAGTAAQAAYV 479
Qy 481 RFOEANKOKOELDEISTINRQAGVQYSRADDEQQALSSQMGFV--PTTAASPPSTAAA 540
Db 480 RFOEANKOKOELDEISTINRQAGVQYSRADDEQQALSSQMGFV--PTTAASPPSTAAA 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOLVLSADNREYLAAGAKERORLATSLRNA 600
Db 538 PPAAPATPVAPPAAANTPNAQCPDPNAAPPAPPAAPPAAPPAAPPAAPPAAPPAAPPA 589

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QY 601 AKAYGEVDEBAATLNDNDEGTVQAESAGAVGDS-----SALDTTPRVATAGEBNF- 653
Db 590 -----IDNPVGFSFALPAGWESDAHFVGSALIS-----KTGDDPPF 630
QY 654 -----MDLKEARKLETGQGSALHFPADGNTFNLTLOGDYKRFPGFD 697
Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAA-----RLGSDMGEE--YM 675
QY 698 NWGSDATACEASLDQQRQWILHMAKLSAMAKQAQVLAOLHWAREHPHYEDIYGLER 757
Db 676 PYPGTRINQETVSLD-----ANGVSGSASYEVKFSDESKNGQIWTGCVISPA 724
QY 758 LVNENPSARDQILPVYAEOQRSEKVLTEYNN-----KAALEPVNP-EKPPAIKIDP 809
Db 725 ANNPDAQPPQRMFVW-----LGTANNPVDKGAALAESIRPLVAPPPA-----P 770
QY 810 PPPPOGGLIPGLMPPSDSGVTPTGMPAAMPVPTGSPGGGLP 856
Db 771 APAPAEPA-----PAPAPAGEVAP-----TPTPTPPTLPLA 802

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RESULT 3

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US-10-193-002-346
; Sequence 346, Application US/10193002
; Publication No. US20030135026A1

```

GENERAL INFORMATION:

```

APPLICANT: Reed, Steven G.
Skelky, Yahir A.W.
Dillon, Davin C.

```

```

Campos-Neto, Antonia
Houghton, Raymond
Vedrick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

```

```

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS

```

```

NUMBER OF SEQUENCES: 350

```

```

CORRESPONDENCE ADDRESS:

```

```

ADDRESS: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle

```

```

STATE: Washington

```

```

COUNTRY: USA

```

```

ZIP: 98104-7092

```

```

COMPUTER READABLE FORM:

```

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MEDIUM TYPE: floppy disk

```

```

COMPUTER: IBM PC compatible

```

```

OPERATING SYSTEM: PC-DOS/MS-DOS

```

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SOFTWARE: Patentin Release #1.0, Version #1.30

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CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/10/193.002

```

```

FILING DATE: 10-Jul-2002

```

```

CLASSIFICATION: <unknown>

```

```

PRIORITY APPLICATION DATA:

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```

APPLICATION NUMBER: US/09/072.596

```

```

FILING DATE: 05-MAY-1998

```

```

ATTORNEY/AGENT INFORMATION:

```

```

NAME: Makl, David J.

```

```

REGISTRATION NUMBER: 31,392

```

```

REFERENCE/DOCKET NUMBER: 210121.417C9

```

```

TELECOMMUNICATION INFORMATION:

```

```

TELEPHONE: (206) 622-4900

```

```

TELEFAX: (206) 682-6031

```

```

INFORMATION FOR SEQ ID NO: 346:

```

```

LENGTH: 802 amino acids

```

```

TYPE: amino acid

```

```

STRANDEDNESS: single

```

```

TOPOLOGY: linear

```

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MOLECULE TYPE: protein

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```

SEQUENCE DESCRIPTION: SEQ ID NO: 346:

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```

US-10-193-002-346

```

```

Query Match 53.2%; Score 2700; DB 4; Length 802;

```

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Best Local Similarity 66.6%; Pred. No. 2, 6e-147;

```

```

Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

```

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QY 1 MGHHHHHVIDIIGTSTSWEOAAAEVORARDSDVDIRVAVIEQDMAVDSAGKITRYI 60
Db 1 MGHHHHHVIDIIGTSTSWEOAAAEVORARDSDVDIRVAVIEQDMAVDSAGKITRYI 60
QY 61 KLEVSFMRPAQRCGSKPPSGSPETGAGAGTAVTPASSPVTLAETGTLPLPLFWLWG 120
Db 61 KLEVSFMRPAQRCGSKPPSGSPETGAGAGTAVTPASSPVTLAETGTLPLPLFWLWG 119
QY 121 PAFHERPVNTITTAQGTSGAGIAQAAAGTVNIGASDAVISEGDMAAHKLMNIALAISA 180
Db 120 PAFHERPVNTITTAQGTSGAGIAQAAAGTVNIGASDAVISEGDMAAHKLMNIALAISA 179
QY 181 QQVNVNLPVSEHLKNGKVLAAVYQGTIKTWDDPQIAALNPGVNLPGTAVVPLHRS DGS 240
Db 180 QQVNVNLPVSEHLKNGKVLAAVYQGTIKTWDDPQIAALNPGVNLPGTAVVPLHRS DGS 239
QY 241 GDTFPLFTQYLSKODPBGMGKSPPGRTTVDPPAVPGALGENGNGMTGCAETPGCAVYIG 300
Db 240 GDTFPLFTQYLSKODPBGMGKSPPGRTTVDPPAVPGALGENGNGMTGCAETPGCAVYIG 299
QY 301 ISFLDQASQKGLGBOQLGNSSGNFLPDAQSIQAAAAAFASKTPANQAI SMIDGPAPDGY 360
Db 300 ISFLDQASQKGLGBOQLGNSSGNFLPDAQSIQAAAAAFASKTPANQAI SMIDGPAPDGY 359
QY 361 PIINYEYAI VNNRQKDAATQOTQAFLEHMAITDGNKASFIDQVHFQPLPVA VVKLSDALI 420
Db 360 PIINYEYAI VNNRQKDAATQOTQAFLEHMAITDGNKASFIDQVHFQPLPVA VVKLSDALI 419
QY 421 ATTSAMKTDAAITLQEGNPFERISGDLKTQIDQVSTYIGSIQCGMRGAAGTAQAAYV 480
Db 420 ATTSAMKTDAAITLQEGNPFERISGDLKTQIDQVSTYIGSIQCGMRGAAGTAQAAYV 479
QY 481 RFOEANKKQKQELDEISTNIRQAGVOYSRADDEQOQALSOMQFQSQTATVVOQELINR 540
Db 480 RFOEANKKQKQELDEISTNIRQAGVOYSRADDEQOQALSOMQF--PTTAA SPSTAAA 537
QY 541 ANVEAPMADPPTDVPTTPELTAAKVAQAQVLSADNMBEYLAAGKERQRLATISRNA 600
Db 538 PPAPATPVAPPRAANTPVAQOCDDPRPAAPPDPAAPPPVVAAPNAPQVVR----- 589
QY 601 AKAYGEVDEBAATLNDNDEGTVQAESAGAVGDS-----SALDTTPRVATAGEBNF- 653
Db 590 -----IDNPVGFSFALPAGWESDAHFVGSALIS-----KTGDDPPF 630
QY 654 -----MDLKEARKLETGQGSALHFPADGNTFNLTLOGDYKRFPGFD 697
Db 631 GQPPVANDTRIVLGRDQKLYASAEATDSKAA-----RLGSDMGEE--YM 675
QY 698 NWGSDATACEASLDQQRQWILHMAKLSAMAKQAQVLAOLHWAREHPHYEDIYGLER 757
Db 676 PYPGTRINQETVSLD-----ANGVSGSASYEVKFSDESKNGQIWTGCVISPA 724
QY 758 LVNENPSARDQILPVYAEOQRSEKVLTEYNN-----KAALEPVNP-EKPPAIKIDP 809
Db 725 ANNPDAQPPQRMFVW-----LGTANNPVDKGAALAESIRPLVAPPPA-----P 770
QY 810 PPPPOGGLIPGLMPPSDSGVTPTGMPAAMPVPTGSPGGGLP 856
Db 771 APAPAEPA-----PAPAPAGEVAP-----TPTPTPPTLPLA 802

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RESULT 4

```

US-10-084-843-214
; Sequence 214, Application US/10084843
; Publication No. US2003013243A1

```

GENERAL INFORMATION:

```

APPLICANT: Reed, Steven G.

```

Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 214:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 214:
US-10-084-843-214
Query Match 53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147; Indels 116; Gaps 15;
Matches 591; Conservative 27; Mismatches 153;
QY 1 MGHHHHHVVDIIGTSTPTSWEOAAEAENVQARSDVDDIRVAVYLEQDMAVDSAGKITRYR 60
DB 1 MGHHHHHVVDIIGTSTPTSWEOAAEAENVQARSDVDDIRVAVYLEQDMAVDSAGKITRYR 60
QY 61 KLEVSFMRPAQRCCKSPSGSPETGAGCTVATTASSPVTLAEFGSTLLPLPLWLG 120
DB 61 KLEVSFMRPAQRCCKSPSGSPETGAGCTVATTASSPVTLAEFGSTLLPLPLWLG 120
QY 121 PAFHERYPAVNTITAGCGSAGTAQAAGVTVNGASPAVYLSBGDMAHKGIMNITALISA 180
DB 121 PAFHERYPAVNTITAGCGSAGTAQAAGVTVNGASPAVYLSBGDMAHKGIMNITALISA 180
QY 181 QQVNVNLPVSEHLKLGKVLAAVQSTIKTWDDPQIAALNPGVNLPGTAVVPLHRSDGS 240
DB 181 QQVNVNLPVSEHLKLGKVLAAVQSTIKTWDDPQIAALNPGVNLPGTAVVPLHRSDGS 240
QY 241 GDTFLFTQVYSKODPBGWGSFGFGTTVDPPAVPALGNGNGMVTGCAETPGCVAYIG 300
DB 241 GDTFLFTQVYSKODPBGWGSFGFGTTVDPPAVPALGNGNGMVTGCAETPGCVAYIG 300
QY 301 ISFLDQASQGLGAEAOUGNSSGNFLPDAOSIQAAAAGFASKTPANQAISMIDGPADGY 360
DB 301 ISFLDQASQGLGAEAOUGNSSGNFLPDAOSIQAAAAGFASKTPANQAISMIDGPADGY 360
QY 360 ISFLDQASQGLGAEAOUGNSSGNFLPDAOSIQAAAAGFASKTPANQAISMIDGPADGY 360
DB 360 ISFLDQASQGLGAEAOUGNSSGNFLPDAOSIQAAAAGFASKTPANQAISMIDGPADGY 360

QY 361 PIINVEYAVNNROKDAATQTLQAFILHWAITDGNKASFLLDQVHPQPLPPAVYKLSDALI 420
DB 360 PIINVEYAVNNROKDAATQTLQAFILHWAITDGNKASFLLDQVHPQPLPPAVYKLSDALI 419
QY 421 ATISSAEMKTDAATLQAEAGNFERISGDLKTOIDQVESTAGSLOGWRGAAGTAAQAAVY 480
DB 420 ATISSAEMKTDAATLQAEAGNFERISGDLKTOIDQVESTAGSLOGWRGAAGTAAQAAVY 479
QY 481 RFOEANKKQKQELDEISTNIRQAGVOYSPADEBQOQALSSQMGFTQSQTIVYDQDEILNR 540
DB 480 RFOEANKKQKQELDEISTNIRQAGVOYSPADEBQOQALSSQMGFTV--PTTAA SPSTAA 537
QY 541 ANVEEAPMDPPDVVITPCELTAANKNAQQLVLSMNNREYLAAGAKERQRLATSLRNA 600
DB 538 PPAPATPVAPPPPAANTPNAAQPGDNNAPPADPNAPPPPIVAPVAPQVR----- 589
QY 601 AKAYGEVDEEATATLNDGEGTVQAESAGAVGDS-----SAELTDTPTRVATAGPNF- 653
DB 590 -----IDNPVGSFSPALPAGWVESDAHFPGSALLS-----KTGDPPEF 630
QY 654 -----MDIKEARKLETGDDQASLAHFPADGMNTNLTLOGDYKRRGED 697
DB 631 GQPPVANDTRIVLGRLDQKLYASAATDSKAAA-----RLGSDWGEF--YM 675
QY 698 NMEGDAATCEASLDQQRQWILHMAKLSAAMKQAGVYAQLHVMARREHPYEDIGLER 757
DB 676 PYPGTRINQETVSLD-----ANGVSGSASTYEVKFPDPSKPNQGIKTVGISPA 724
QY 758 LVANESBARQDILPYVAEYQORSEKVLTEYNN-----KAALPEVNP-PKPPPAIKIDP 809
DB 725 ANAPDAGPPQRMVTVW-----LGTANNPVDGAAKALAEISRLPLVAPPAP-----P 770
QY 810 PPPQOGLIPGFLMPPSDSGSVTPTGMPAPMPVPTGSPGGGLPA 856
DB 771 APAPABPA-----PAPAPAGEVAP-----TPTPTPQRTLPA 802
RESULT 5
US-10-084-843-351
; Sequence 351, Application US/10084843
; Publication No. US20030143243A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION NUMBER: US/09/072,967


```

;
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 351:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 351:
US-10-084-843-351

Query Match      53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHNVIDIIGTSPTSWEQAAAEAVORAROSVDDIRVARYIEODMAVDSAGKITTYRI 60
DB 1 MGHNNHHNVIDIIGTSPTSWEQAAAEAVORAROSVDDIRVARYIEODMAVDSAGKITTYRI 60
QY 61 KLEVSFMRAPROCRSGSPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLPLFNLWG 120
DB 61 KLEVSFMRAPROCRSGSPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLPLFNLWG 119
QY 121 PAFHERYPNTTITAOGTSGAGIAQAAAAGTVNIGASDAYISEGDMAAHKGMNIALAISA 180
DB 120 PAFHERYPNTTITAOGTSGAGIAQAAAAGTVNIGASDAYISEGDMAAHKGMNIALAISA 179
QY 181 QOVNVMPLGVSEHLKNGKTLAAMYOGTITKTWDDPOIAALNPGVNLPGTAVVPLHRSDDG 240
DB 180 QOVNVMPLGVSEHLKNGKTLAAMYOGTITKTWDDPOIAALNPGVNLPGTAVVPLHRSDDG 239
QY 241 GDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 300
DB 240 GDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASORGLGBAQLGNSSGNFLPDAQSIGAAAAAFASKTPANQALSMIDGPADGY 360
DB 300 ISFLDQASORGLGBAQLGNSSGNFLPDAQSIGAAAAAFASKTPANQALSMIDGPADGY 359
QY 361 PIINVEYAIYNNRQKDAATQTLQAFLLHMAITDGNKASFLDQVHFQPLPRAVYGLSDALI 420
DB 360 PIINVEYAIYNNRQKDAATQTLQAFLLHMAITDGNKASFLDQVHFQPLPRAVYGLSDALI 419
QY 421 ATISSAEMKTDATLQEAENFERISGDLKTQIDQVSTSGSLQOGMRGAAGTAQAAYV 480
DB 420 ATISSAEMKTDATLQEAENFERISGDLKTQIDQVSTSGSLQOGMRGAAGTAQAAYV 479
QY 481 RFOEAAKQKQELDEISTNIRQAGVQYRADDEEQOALSSQMGFTQSQTLVDOQETLNR 540
DB 480 RFOEAAKQKQELDEISTNIRQAGVQYRADDEEQOALSSQMGV--PTTAAESPSTRAA 537
QY 541 ANEVEAPMADPTDVPITPCELTAAKNAAOQLVLSADNMBEYLAAGKERQRLATSLRNA 600
DB 538 PPAAPFVAPPPPAALANTPNAQPCDPNAAPPADPNAPPPVLAIPNAPQVPR----- 589
QY 601 AKAYGEVDEBAATLADNDGSGTVQAESAGAVGDS-----SALTPTTPVAVATAGEPNF- 653
DB 601 AKAYGEVDEBAATLADNDGSGTVQAESAGAVGDS-----SALTPTTPVAVATAGEPNF- 653
QY 654 -----MDLKEARKLETGDCASLAFHAFADQWNTFNLTLQGDVYKRFPGFD 697
DB 631 GQPPVANDTRIVYGLRDQKLVASAETDSKAAA-----RLSDMGEF--YM 675
QY 698 NMESDAATACEASIDQORQWILHMAKLSAAMAKAQVVAQLHWAREHPTEYEDYGLER 757
DB 676 PYGTRINQETVSLD-----ANGVSGSASYYEYKFSKDPKNGQIMTGVLGSPA 724
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QY 758 LYAENPSARDQIILPYAYEQKSEKYLTEYNN-----KAALEPNVP-PKPPPAIKIDP 809
DB 725 ANAPDAGPPQORWFWV-----LGTANNVDVKGAALABESIRPLVAPPAP-----P 770
QY 810 PPPPOEGGLIFGLMPPSDSGVTPGCMPPAPMVPPTGSPGGGLPA 856
DB 771 APAPAEPA-----PAPAPAGEVAP-----TPTTPTPOTLPA 802

RESULT 6
US-10-359-460-10
; Sequence 10, Application US/10359460
; Publication No. US20030147911A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Melo, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: and Their Uses
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/10/359,460
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US/09/287,849
; PRIOR FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: tetra-fusion
US-10-359-460-10

Query Match      53.2%; Score 2700; DB 4; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

QY 1 MGHNNHHNVIDIIGTSPTSWEQAAAEAVORAROSVDDIRVARYIEODMAVDSAGKITTYRI 60
DB 1 MGHNNHHNVIDIIGTSPTSWEQAAAEAVORAROSVDDIRVARYIEODMAVDSAGKITTYRI 60
QY 61 KLEVSFMRAPROCRSGSPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLPLFNLWG 120
DB 61 KLEVSFMRAPROCRSGSPSGSPETGAGAGTVAATTPASSPVTLAETGSLTLPLFNLWG 119
QY 121 PAFHERYPNTTITAOGTSGAGIAQAAAAGTVNIGASDAYISEGDMAAHKGMNIALAISA 180
DB 120 PAFHERYPNTTITAOGTSGAGIAQAAAAGTVNIGASDAYISEGDMAAHKGMNIALAISA 179
QY 181 QOVNVMPLGVSEHLKNGKTLAAMYOGTITKTWDDPOIAALNPGVNLPGTAVVPLHRSDDG 240
DB 180 QOVNVMPLGVSEHLKNGKTLAAMYOGTITKTWDDPOIAALNPGVNLPGTAVVPLHRSDDG 239
QY 241 GDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 300
DB 240 GDTFLFTQYLSKODPEGMGKSPGFGTTVDPPAVPAGALGENGNGMTGCAETPGCVAYIG 299
QY 301 ISFLDQASORGLGBAQLGNSSGNFLPDAQSIGAAAAAFASKTPANQALSMIDGPADGY 360
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Db 300 ISFLDQASQGLGEALGNSSGNFLPDAQSIQAAAAGFASKTPRANQALSMIDGPAIDGY 359
Qy 361 PIINYEYAIVNNRQKDAATQTLQAFLEHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 420
Db 360 PIINYEYAIVNNRQKDAATQTLQAFLEHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 419
Qy 421 ATISSAEMKTDAATLQAQENFERISGDLKTOIDQVESTAGSIQOGWRGAAGTAAQAAVY 480
Db 420 ATISSAEMKTDAATLQAQENFERISGDLKTOIDQVESTAGSIQOGWRGAAGTAAQAAVY 479
Qy 481 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMGFTQSQTIVVQOQELINR 540
Db 480 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMGFTQSQTIVVQOQELINR 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOLVLSADNMREYLAAGAKERQRLATSLRNA 600
Db 538 PRAPATPVAPPRAANTPNAQCGDNNAAPPPADPNAPPPVIAAPNAPQVVR----- 589
Qy 601 AKAYGEVDEBAATALNDGEGTVQASAGAVGDS-----SALDTTPRVATAGEBNF- 653
Db 590 -----IDNPVGGFSFALPAGWVESDAHFVDSALLS-----KTTGDPFPF 630
Qy 654 -----MDLKEARKLETGDOGASLAFADGNTFNULTLOGDYKRRFRGPD 697
Db 631 GOPPVANDTRIVLGRIDOKLYASAEATDSKAAA-----RLGSDWGEF--YM 675
Qy 698 NMEGDAAATCEASIDQORQWITLHMAKLSAAMAKOQVLAQLHWAREHREHYTDIVGLER 757
Db 676 PYGTGINTGETVLD-----ANGVSGASAYEVFSPDSKNGIOWGVIGSPA 724
Qy 758 LVAENSAARDQILPVYAEVQORSEKVLTEYN-----KALEPVNP-EKPPAIKIDP 809
Db 725 ANAPDAGPPQRMFVW-----LGTANNPDKAKALASIRPLVAPPA-----P 770
Qy 810 PPPQOGLIFGLMPPDSGCVTPGGMAPAAEMVPTPSGGGLPA 856
Db 771 APAPAPPA-----PAPAPAGEVAP-----TPPTPPORTLPA 802

RESULT 7
US-11-028-898-214
; Sequence 214, Application US/11028898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skelky, Yasir A.W.
; Dillon, Devin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedick, Thomas S.
; Twardzik, Daniel R.
; Iodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; APPLICATION NUMBER: US/11/028,898
; FILING DATE: 03-Jan-2005
; CLASSIFICATION: <Unknown>

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 03-Jan-2005
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 214:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 214:
US-11-028-898-214

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Query Match 53.2%; Score 2700; DB 6; Length 802;
Best Local Similarity 66.6%; Pred. No. 2,6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

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Qy 1 MGHNNHHVYIDITGTSPTSEQAARAVQARSDVDIVARVIEDMAVDSAGKTYRI 60
Db 1 MGHNNHHVYIDITGTSPTSEQAARAVQARSDVDIVARVIEDMAVDSAGKTYRI 60
Qy 61 KLEVSFRKMPAPROGSKPPSGSPETGAGATVATTASSPYTLAETGSLTYPLFNLWG 120
Db 61 KLEVSFRKMPAPROGSKPPSGSPETGAGATVATTASSPYTLAETGSLTYPLFNLWG 119
Qy 121 PAFHERYVNTTITAGTSGAGIQAQAAGTVINIGASDAYLSBGDMAHKLNNIALAISA 180
Db 120 PAFHERYVNTTITAGTSGAGIQAQAAGTVINIGASDAYLSBGDMAHKLNNIALAISA 179
Qy 181 QOVNVLPGVSEHLKNGKYLAAMYOGTITKTWDDPOIALNPGVNP.PGTRVYVLRHSDGS 240
Db 180 QOVNVLPGVSEHLKNGKYLAAMYOGTITKTWDDPOIALNPGVNP.PGTRVYVLRHSDGS 239
Qy 241 GDTFLFTOYLSKODPEGKSPGFGTTVPFPAVPGALGNGNGMWTCGETPGCAVYIG 300
Db 240 GDTFLFTOYLSKODPEGKSPGFGTTVPFPAVPGALGNGNGMWTCGETPGCAVYIG 299
Qy 301 ISFLDQASQGLGEALGNSSGNFLPDAQSIQAAAAGFASKTPRANQALSMIDGPAIDGY 360
Db 300 ISFLDQASQGLGEALGNSSGNFLPDAQSIQAAAAGFASKTPRANQALSMIDGPAIDGY 359
Qy 361 PIINYEYAIVNNRQKDAATQTLQAFLEHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 420
Db 360 PIINYEYAIVNNRQKDAATQTLQAFLEHMAITDGNKASFLDOVHFOPLPPAVVKLSDALI 419
Qy 421 ATISSAEMKTDAATLQAQENFERISGDLKTOIDQVESTAGSIQOGWRGAAGTAAQAAVY 480
Db 420 ATISSAEMKTDAATLQAQENFERISGDLKTOIDQVESTAGSIQOGWRGAAGTAAQAAVY 479
Qy 481 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMGFTQSQTIVVQOQELINR 540
Db 480 RFOEANKKQKOEDELSTINRQAGVOYSRADDEOQALSSOMGFTQSQTIVVQOQELINR 537
Qy 541 ANEVEAPMADPPTDVITPCELTAANKAAQOLVLSADNMREYLAAGAKERQRLATSLRNA 600
Db 538 PRAPATPVAPPRAANTPNAQCGDNNAAPPPADPNAPPPVIAAPNAPQVVR----- 589
Qy 601 AKAYGEVDEBAATALNDGEGTVQASAGAVGDS-----SALDTTPRVATAGEBNF- 653
Db 590 -----IDNPVGGFSFALPAGWVESDAHFVDSALLS-----KTTGDPFPF 630
Qy 654 -----MDLKEARKLETGDOGASLAFADGNTFNULTLOGDYKRRFRGPD 697
Db 631 GOPPVANDTRIVLGRIDOKLYASAEATDSKAAA-----RLGSDWGEF--YM 675

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QY 698 NMEGDAATACEASLDQORWILHMAKLSAAMAKOQYVAQLHWARREHPTVEDIVGLER 757
DB 676 PYGRTINGETVSLD-----ANGVSGSASYEVKFSDBSKPNQIWTGVIGSPA 724
QY 758 LVAENPSARDQILPYVAEYQORSEKULTEYNN-----KAALEPNVP-PKPPPAKIDP 809
DB 725 ANAPDAGPPQRMFVWV-----LGTANNPVVDKGAALAESIRPLVAPPAA-----P 770
QY 810 PPPPOEGILPGFLMPSPDGSVTPGTGMPAPAMVWPPTGSPGGGLPA 856
DB 771 APAPAPAA-----PAPAPAGEVAP-----TPTTPTPORTLPA 802

RESULT 8
US-11-028-898-351
Sequence 351, Application US/11028898
Publication No. US20050136069A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4800
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 351:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 351:
US-11-028-898-351

Query Match 53.2%; Score 2700; DB 6; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;
QY 1 MGHHHHHVYIDIGTSPTEWQAABAAYVQARSDVDDIRVAVIEQDMAVDSAGKITRYI 60

DB 1 MGHHHHHVYIDIGTSPTEWQAABAAYVQARSDVDDIRVAVIEQDMAVDSAGKITRYI 60
QY 61 KLEVSFRMPAPORCSKPPSGSPETGAGATATTPASSPVTLAETGTLPLPLFWG 120
DB 61 KLEVSFRMPAPORCSKPPSGSPETGAGATATTPASSPVTLAETGTLPLPLFWG 119
QY 121 PAFHERYPNVTITAOGTSGAGIAQAAGTAVNIGASDAVYLSGDDMAHKGLMNIATAISA 180
DB 120 PAFHERYPNVTITAOGTSGAGIAQAAGTAVNIGASDAVYLSGDDMAHKGLMNIATAISA 179
QY 181 QOVNVLPGVSEHLKNGKYLAAAYGTTKTWDDPOIALNPVNLPGTAVVPLHRSDDG 240
DB 180 QOVNVLPGVSEHLKNGKYLAAAYGTTKTWDDPOIALNPVNLPGTAVVPLHRSDDG 239
QY 241 GDTFLFTQYLSKODPBGWKSPPGFTTVPAPVAGALGENGGMVTCAGETGCAVAYIG 300
DB 240 GDTFLFTQYLSKODPBGWKSPPGFTTVPAPVAGALGENGGMVTCAGETGCAVAYIG 299
QY 301 ISFLDQASQRGLEAQLGNSGNNFLPDAQSLQAAAAGFASKTPANQALSMIDGPAPDGY 360
DB 300 ISFLDQASQRGLEAQLGNSGNNFLPDAQSLQAAAAGFASKTPANQALSMIDGPAPDGY 359
QY 361 PIINVEYAIYNNRQKDAATQTLQAFLHMAITDGNKASFLDQVHFOPLPPAVVYKLSDALI 420
DB 360 PIINVEYAIYNNRQKDAATQTLQAFLHMAITDGNKASFLDQVHFOPLPPAVVYKLSDALI 419
QY 421 ATISSAEMKTDAATLQOENGFERISGDLKTQIDQVESTAGSIQGMWRGAAGTAAQAAV 480
DB 420 ATISSAEMKTDAATLQOENGFERISGDLKTQIDQVESTAGSIQGMWRGAAGTAAQAAV 479
QY 481 RFOEANKQKQELDEISTNIRQAGVYSPRADEEQOALSSOMFTQSQTVTVDOQETILNR 540
DB 480 RFOEANKQKQELDEISTNIRQAGVYSPRADEEQOALSSOMFTQSQTVTVDOQETILNR 537
QY 541 ANEVEAPMADPPTDVBITPCELTAAKNAQOVLASDNKREYLAAGAKERQRLATSLRNA 600
DB 538 PPAPATPVAPPPPAANTENNAQPDENNAAPPAPDPAAPPVIAIPANAPQVVR----- 589
QY 601 AKAYGVEDEBATLNDGEGTVQAESAGAVGDS-----SAELDTFRVATAGEBNF- 653
DB 590 -----INPVGGFSPALPACWVESDAHFVDSALLS-----KTTGPPFP 630
QY 654 -----MDLKEARKLETGDOGASLHFPADGWTFTLTLQGDVYKRFPGFD 697
DB 631 GQPPVANDTRIVLGRDLQTLASAEATDSKAA-----RLGSDMGEF--YM 675
QY 698 NMEGDAATACEASLDQORWILHMAKLSAAMAKOQYVAQLHWARREHPTVEDIVGLER 757
DB 676 PYGRTINGETVSLD-----ANGVSGSASYEVKFSDBSKPNQIWTGVIGSPA 724
QY 758 LVAENPSARDQILPYVAEYQORSEKULTEYNN-----KAALEPNVP-PKPPPAKIDP 809
DB 725 ANAPDAGPPQRMFVWV-----LGTANNPVVDKGAALAESIRPLVAPPAA-----P 770
QY 810 PPPPOEGILPGFLMPSPDGSVTPGTGMPAPAMVWPPTGSPGGGLPA 856
DB 771 APAPAPAA-----PAPAPAGEVAP-----TPTTPTPORTLPA 802

RESULT 9
US-11-082-005-209
Sequence 209, Application US/11082005
Publication No. US20050181419A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skeiky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.

Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 209:
SEQUENCE CHARACTERISTICS:
LENGTH: 802 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 209:
US-11-082-005-209
Query Match 53.2%; Score 2700; DB 6; Length 802;
Best Local Similarity 66.6%; Pred. No. 2.6e-147;
Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;
QY 1 MGHNNHNVTDIIGTSPTEWQAAAEAVORARSDVDIRVAVREODMAVDSAGKITRYI 60
DB 1 MGHNNHNVTDIIGTSPTEWQAAAEAVORARSDVDIRVAVREODMAVDSAGKITRYI 60
QY 61 KLEVSFMRPAOPRCGSKPPSGSPETGAGATVATTPASSPVTLAETGTLVPLFNLWG 120
DB 61 KLEVSFMRPAOPRCGSKPPSGSPETGAGATVATTPASSPVTLAETGTLVPLFNLWG 119
QY 121 PAHERYEVNTTITDGTGSGAGTAAAGVYNIGASAYISEGMAAHKGMNTALISA 180
DB 121 PAHERYEVNTTITDGTGSGAGTAAAGVYNIGASAYISEGMAAHKGMNTALISA 179
QY 181 QOVNVMVPGVSEHKLNKGKVLAAVYOGTITKWDPOIATNPGVNLGFTAVVPLHRSDG 240
DB 181 QOVNVMVPGVSEHKLNKGKVLAAVYOGTITKWDPOIATNPGVNLGFTAVVPLHRSDG 239
QY 241 GDFLFTQVLSKODPEBGKSPGFGTVPDPAVPGALGNGNGMVGCAETPGCVAYIG 300
DB 241 GDFLFTQVLSKODPEBGKSPGFGTVPDPAVPGALGNGNGMVGCAETPGCVAYIG 299
QY 301 ISFLDQASQGLGEAQLGNSGNFLPDAOSIQAAAAGFASKTPANQAISMIDPAPDGY 360
DB 301 ISFLDQASQGLGEAQLGNSGNFLPDAOSIQAAAAGFASKTPANQAISMIDPAPDGY 359
QY 361 PIINVEYAIYNNRQKAAATQTLQAFIHMALTDGNKASFLDOVHFOPLPRAVYVLSALI 420
DB 361 PIINVEYAIYNNRQKAAATQTLQAFIHMALTDGNKASFLDOVHFOPLPRAVYVLSALI 419

QY 421 ATISSAEMTKDAATLAEAGNFERISGDIKTQIIDOVESFAGSLQGWGAGTAAQAAVY 480
DB 420 ATISSAEMTKDAATLAEAGNFERISGDIKTQIIDOVESFAGSLQGWGAGTAAQAAVY 479
QY 481 RFOEANKOKOELDEISTNIRQAGVQYSRADEEQOALSSQMGFTOSQTVVDQOELNR 540
DB 480 RFOEANKOKOELDEISTNIRQAGVQYSRADEEQOALSSQMGFTV--PTTAAISPETA 537
QY 541 ANEVEAPMADPPTDVEITPCELTAAKNAQQLVLSADNNREYLAAGAKEROLATSLRNA 600
DB 538 PPAPATPVAPPAPPAANTPNAOPGDPNAPPPADPNAPPVIAAPVAPVPR----- 589
QY 601 AKAYGEVDEEATALDNDGFTVQASAGVGDGDS-----SABLTDTRVATAGSPNF- 653
DB 590 -----IDNPVGFSPFALPAGWESDAHFPYGSLLS-----KTGDPPPP 630
QY 654 -----MDLKEARKLETGDOGASLHAFADGWNFTNLTLQGVYKPERGPD 697
DB 631 GQPPVANDTRVLGRLDQKLYASAEATDSKAAA-----RLGSDWGEF--YV 675
QY 698 NMEGDAATACEASLDQQRQWILHMAKLSAAMAKQOYVAQLHWYARREHPTEDVGLER 757
DB 676 PYGTRINGETVSLD-----ANGVSGSASYEVKFSDPKPNQOIWTVGVSBA 724
QY 758 LVANESADQILPYVAEYQOSEKTLTEYNN-----KALEPVNP-PKPPPAIKIDP 809
DB 725 ANAPDAGPPQRMFVW-----LGTANNEVDKAAKAALESIRPLVAPPPA----P 770
QY 810 PPPQOGLIPFLMPSPDSGVTPTGMPAAPMVPTGSPGGGLPA 856
DB 771 APAPAEPA-----PAPAPAGEVAP-----TTTTTPQRTLPA 802

RESULT 10

US-11-082-005-346
Sequence 346, Application US/11082005
Publication No. US20050181419A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neto, Antonia
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.

REGISTRATION NUMBER: 31,392
 REFERENCE/DOCKET NUMBER: 210121.417C9
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 346:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 802 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 346:
 US-11-082-005-346

Query Match 53.2%; Score 2700; DB 6; Length 802;
 Best Local Similarity 66.6%; Pred. No. 2,6e-147;
 Matches 591; Conservative 27; Mismatches 153; Indels 116; Gaps 15;

1 MGHHHHHVIDIIGTSPTEQAAAEAVQARSDVDIRVARVIEQDMAYDSAGKITRYRI 60
 1 MGHHHHHVIDIIGTSPTEQAAAEAVQARSDVDIRVARVIEQDMAYDSAGKITRYRI 60
 61 KLEVSFMRPAQPRCSKPPSGSPETGAGATVATTPASSPVTLAETGSLTYPLFNLWG 120
 61 KLEVSFMRPAQPRCSKPPSGSPETGAGATVATTPASSPVTLAETGSLTYPLFNLWG 120
 61 KLEVSFMRPAQPRCSKPPSGSPETGAGATVATTPASSPVTLAETGSLTYPLFNLWG 119
 121 PAFHERIPNTTITAOGSGAGIQAAGATVNIAGASATYISEGMAHKGIMNIALAISA 180
 121 PAFHERIPNTTITAOGSGAGIQAAGATVNIAGASATYISEGMAHKGIMNIALAISA 180
 120 PAFHERIPNTTITAOGSGAGIQAAGATVNIAGASATYISEGMAHKGIMNIALAISA 179
 181 QGVNVLPGVSEHLKNGKVLAAVYQSTIKTMDPQIALNPGVNLPGTAVVPLHRS DG 240
 181 QGVNVLPGVSEHLKNGKVLAAVYQSTIKTMDPQIALNPGVNLPGTAVVPLHRS DG 240
 180 QGVNVLPGVSEHLKNGKVLAAVYQSTIKTMDPQIALNPGVNLPGTAVVPLHRS DG 239
 241 GDTFLFTQYLSKODPEGMGKSPGFTTVDEPAVPGALGNGNGMVTGCAETPCVAYIG 300
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 301 ISFLDQASQGLGBOUQGNSSGNFLPDQOSIQAAAAGFASKTPANQAIMIDGPADGY 360
 301 ISFLDQASQGLGBOUQGNSSGNFLPDQOSIQAAAAGFASKTPANQAIMIDGPADGY 360
 300 ISFLDQASQGLGBOUQGNSSGNFLPDQOSIQAAAAGFASKTPANQAIMIDGPADGY 359
 361 PIINVEYAIYNNKOKDAATQTLQAFIHMALITDGNKASFLDOVHFQPLPAVVALSLALI 420
 361 PIINVEYAIYNNKOKDAATQTLQAFIHMALITDGNKASFLDOVHFQPLPAVVALSLALI 420
 360 PIINVEYAIYNNKOKDAATQTLQAFIHMALITDGNKASFLDOVHFQPLPAVVALSLALI 419
 421 ATISSAEMKTDATLAQEAQNFERSISGLTKTOIDQVESTAGSLQGWGAAGTAQAQAVV 480
 421 ATISSAEMKTDATLAQEAQNFERSISGLTKTOIDQVESTAGSLQGWGAAGTAQAQAVV 480
 420 ATISSAEMKTDATLAQEAQNFERSISGLTKTOIDQVESTAGSLQGWGAAGTAQAQAVV 479
 481 RPOEANKKQOELEISTNIRQAGVOYSRADDEEQOALSSQMGFTQSGVTVDDQOEILNR 540
 481 RPOEANKKQOELEISTNIRQAGVOYSRADDEEQOALSSQMGFTQSGVTVDDQOEILNR 540
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 541 ANVEAPMADPPTDVTTPCELTAAKRAAQOVLISADNMEYLAAGAKERQRLATSLRNA 600
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 538 PPAAPFVAPPPAANTPNAQPCDPDPAAPPDPAAPPVPAAPNAPQVPR----- 589
 601 AKAYGEVDEBATAALDNDGEGTVOAESAGAVGDS-----SAELTTPRATAGEBNF- 653
 601 AKAYGEVDEBATAALDNDGEGTVOAESAGAVGDS-----SAELTTPRATAGEBNF- 653
 590 -----IDNPVGGFSPALPAGVNESDAHFDGSLALS-----KTTGDDPPF 630
 590 -----IDNPVGGFSPALPAGVNESDAHFDGSLALS-----KTTGDDPPF 630
 654 -----MDLKEARKLETGDOGASLAHFAFGWNTFNLTLOGDVKFRFGFD 697
 654 -----MDLKEARKLETGDOGASLAHFAFGWNTFNLTLOGDVKFRFGFD 697
 631 GQPPVANDTRIVLGRIDQKLVSABEATDSKAAA-----RLGSDWGEF--YM 675
 631 GQPPVANDTRIVLGRIDQKLVSABEATDSKAAA-----RLGSDWGEF--YM 675
 698 NMGSDATAGASISDQORQWILIMAKUSAMAKQAQVVAQIHWAREHPTIEDIVLER 757
 698 NMGSDATAGASISDQORQWILIMAKUSAMAKQAQVVAQIHWAREHPTIEDIVLER 757
 676 PYGSTRINQGTVSID-----ANGVSGSASTYEVKFSDBSKNGQIWTGVISPA 724
 676 PYGSTRINQGTVSID-----ANGVSGSASTYEVKFSDBSKNGQIWTGVISPA 724
 758 LVANESAPDOILLPVVAEOORSEKVLTEYNN-----KAALEPVNP-EKPPPAIKIDP 809
 758 LVANESAPDOILLPVVAEOORSEKVLTEYNN-----KAALEPVNP-EKPPPAIKIDP 809

Db 725 ANAPDAGPQRMFVW-----LGTANNPVDKAALAEISIRPLVAPPA-----P 770
 Qy 810 PPPQOGLIPGFLMPPSDSGVTPTGTMPAAFWVPPTGSPGGGLPA 856
 Db 771 APAPAPPA-----PAPAPAGEVAP-----TPTTPPQRLPA 802

RESULT 11
 US-10-193-002-179
 Sequence 179, Application US/10193002
 Publication No. US20030135026A1
 GENERAL INFORMATION:
 APPLICANT: Reed, Steven G.
 Skelky, Yasir A.W.
 Dillon, Davin C.
 Campos-Neto, Antonia
 Houghton, Raymond
 Vedivick, Thomas S.
 Twardzik, Daniel R.
 Lodes, Michael J.
 Hendrickson, Ronald C.
 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
 TUBERCULOSIS
 NUMBER OF SEQUENCES: 350
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: USA
 ZIP: 98104-7092
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/193,002
 FILING DATE: 10-Jul-2002
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/072,596
 FILING DATE: 05-MAY-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Mak, David J.
 REGISTRATION NUMBER: 31,392
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 179:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 460 amino acids
 TYPE: amino acid
 STRANDEDNESS: <Unknown>
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 179:
 US-10-193-002-179

Query Match 46.8%; Score 2375; DB 4; Length 460;
 Best Local Similarity 100.0%; Pred. No. 7.4e-129;
 Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 525 TQSGTTVTDDQOEILNRANVEAPMADPPTDVTTPCELTAAKRAAQOVLISADNMEYLA 584
 Db 2 TQSGTTVTDDQOEILNRANVEAPMADPPTDVTTPCELTAAKRAAQOVLISADNMEYLA 61
 Qy 585 AGAKERQRLATSLRNAKAGVDEBATAALDNDGEGTVOAESAGAVGDSAEITPTPR 644
 Db 62 AGAKERQRLATSLRNAKAGVDEBATAALDNDGEGTVOAESAGAVGDSAEITPTPR 121
 Qy 645 VATAGEBNFMDLKEARKLETGDOGASLAHFAFGWNTFNLTLOGDVKFRFGFDWEGDAA 704
 645 VATAGEBNFMDLKEARKLETGDOGASLAHFAFGWNTFNLTLOGDVKFRFGFDWEGDAA 704

Db 122 VATAGEPNFMDLKEARKLETEDQASLAFADGNTFNLITOGDYKRRFGPNMEGDAA 181
QY 705 TACEASLDQOROWILHMAKLSAAMAKOAYVAQLHWARREHPTEDIVGLERLYAENPS 764
Db 182 TACEASLDQOROWILHMAKLSAAMAKOAYVAQLHWARREHPTEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVKPPPAIKIDPPPPQEOGLIPGFLM 824
Db 242 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVKPPPAIKIDPPPPQEOGLIPGFLM 301
QY 825 PPSDGSVTPGTGMPAPVPPPTGSPGGGLPDTAQLTSAGREAAALSGDVAVKAAISIG 884
Db 302 PPSDGSVTPGTGMPAPVPPPTGSPGGGLPDTAQLTSAGREAAALSGDVAVKAAISIG 361
QY 885 GGGGGVSPAPLGSALIGASVVRPAGADYAGLGGGAGGAAALGGGGMGMPGAHHQOQ 944
Db 362 GGGGGVSPAPLGSALIGASVVRPAGADYAGLGGGAGGAAALGGGGMGMPGAHHQOQ 421
QY 945 GGAKSQSGOEDBALYTEDRAMTEAVTGNRRRDSKESK 983
Db 422 GGAKSQSGOEDBALYTEDRAMTEAVTGNRRRDSKESK 460

RESULT 12

US-10-084-843-184
Sequence 184, Application US/10084843
Publication No. US20030143243A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.

Skelky, Yasir A.W.
Dillon, Davin C.
Campos-Neto, Antonio
Houghton, Raymond
Vedrick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121,411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 184:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 184:

US-10-084-843-184
Query Match 46.8%; Score 2375; DB 4; Length 460;
Best Local Similarity 100.0%; Pred. No. 7,4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVQOORILHMAKLSAAMAKOAYVAQLHWARREHPTEDIVGLERLYAENPS 584
Db 2 TOSQTVVQOORILHMAKLSAAMAKOAYVAQLHWARREHPTEDIVGLERLYAENPS 61
QY 585 AGAKERQRLATSLRNAAKAYGEVDEEATATLNDGEGTVOASAGAVGDSSELTDTPR 644
Db 62 AGAKERQRLATSLRNAAKAYGEVDEEATATLNDGEGTVOASAGAVGDSSELTDTPR 121
QY 645 VATAGEPNFMDLKEARKLETEDQASLAFADGNTFNLITOGDYKRRFGPNMEGDAA 704
Db 122 VATAGEPNFMDLKEARKLETEDQASLAFADGNTFNLITOGDYKRRFGPNMEGDAA 181
QY 705 TACEASLDQOROWILHMAKLSAAMAKOAYVAQLHWARREHPTEDIVGLERLYAENPS 764
Db 182 TACEASLDQOROWILHMAKLSAAMAKOAYVAQLHWARREHPTEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVKPPPAIKIDPPPPQEOGLIPGFLM 824
Db 242 ARDQILPVYAEYQORSEKVLTEYNKALAEVNPVKPPPAIKIDPPPPQEOGLIPGFLM 301
QY 825 PPSDGSVTPGTGMPAPVPPPTGSPGGGLPDTAQLTSAGREAAALSGDVAVKAAISIG 884
Db 302 PPSDGSVTPGTGMPAPVPPPTGSPGGGLPDTAQLTSAGREAAALSGDVAVKAAISIG 361
QY 885 GGGGGVSPAPLGSALIGASVVRPAGADYAGLGGGAGGAAALGGGGMGMPGAHHQOQ 944
Db 362 GGGGGVSPAPLGSALIGASVVRPAGADYAGLGGGAGGAAALGGGGMGMPGAHHQOQ 421
QY 945 GGAKSQSGOEDBALYTEDRAMTEAVTGNRRRDSKESK 983
Db 422 GGAKSQSGOEDBALYTEDRAMTEAVTGNRRRDSKESK 460

RESULT 13

US-10-510-021-71
Sequence 71, Application US/10510021
Publication No. US20050220811A1
GENERAL INFORMATION:
APPLICANT: Cole, Stewart
APPLICANT: Pym, Alexander S
APPLICANT: Brosch, Roland
APPLICANT: Majlessi, Ialeh
APPLICANT: Demangel, Caroline
APPLICANT: Lecerfc, Claude

TITLE OF INVENTION: Identification of virulence associated regions RD1 and
RD5 leading to improve vaccine of M. bovis BCG and M.
TITLE OF INVENTION: microti
FILE REFERENCE: D20217
CURRENT APPLICATION NUMBER: US/10/510,021
CURRENT FILING DATE: 2004-10-01
PRIOR APPLICATION NUMBER: PCT/IB03/01789
PRIOR FILING DATE: 2003-04-01
PRIOR APPLICATION NUMBER: EP 02/290864
PRIOR FILING DATE: 2002-04-05
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 71

LENGTH: 460
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
FEATURES:
OTHER INFORMATION: RV3881c - conserved hypothetical alanine and
glycine rich protein
US-10-510-021-71

Query Match 46.8%; Score 2375; DB 5; Length 460;
Best Local Similarity 100.0%; Pred. No. 7,4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Job time : 230.768 secs

STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/082,005
FILING DATE: 15-Mar-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/193,002
FILING DATE: 10-Jul-2002
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 179:
SEQUENCE CHARACTERISTICS:
LENGTH: 460 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 179:
US-11-082-005-179

Query Match 46.8%; Score 2375; DB 6; Length 460;
Best Local Similarity 100.0%; Pred. No. 7.4e-129;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 525 TOSQTVVDOQELINRANEVEAPMADPPPTVPITPCETAAKNAAOQLVLSADNMREYLA 584
DB 2 TOSQTVVDOQELINRANEVEAPMADPPPTVPITPCETAAKNAAOQLVLSADNMREYLA 61
QY 585 AGAKERQRLATSLRNNAKAYGEVDEEAATALDNDGEGTVAESAAGVGDSSAELTDTPR 644
DB 62 AGAKERQRLATSLRNNAKAYGEVDEEAATALDNDGEGTVAESAAGVGDSSAELTDTPR 121
QY 645 VATAGEPNFMDLKEARKLETGDOGASLAHPADGWNFTNLTLQGDVRRFRGFDNWEGDAA 704
DB 122 VATAGEPNFMDLKEARKLETGDOGASLAHPADGWNFTNLTLQGDVRRFRGFDNWEGDAA 181
QY 705 TACEASLDOOROWILHNAKLSAAMAKOAYVAQLHWARREHPTVEDIVGLERLYAENPS 764
DB 182 TACEASLDOOROWILHNAKLSAAMAKOAYVAQLHWARREHPTVEDIVGLERLYAENPS 241
QY 765 ARDQILPVYAEYQORSEKVLTEYNNKALBPVNPKPPIAKIDPPPPPOEGILPGFLM 824
DB 242 ARDQILPVYAEYQORSEKVLTEYNNKALBPVNPKPPIAKIDPPPPPOEGILPGFLM 301
QY 825 PRSDGSGVTPTGTMPAAMPVPTGSPGGGLPADTAQLTSAGREAAALSGDVAVKAASLG 884
DB 302 PRSDGSGVTPTGTMPAAMPVPTGSPGGGLPADTAQLTSAGREAAALSGDVAVKAASLG 361
QY 885 GGGGGGVPSAPLGSATIGASVPRAGADTAGLGGAGGGAALGGGGMGMKGAHOGQ 944
DB 362 GGGGGGVPSAPLGSATIGASVPRAGADTAGLGGAGGGAALGGGGMGMKGAHOGQ 421
QY 945 GGAKSQSGOQDEALYTEDEARWTEAVIGNRRRODSKESK 983
DB 422 GGAKSQSGOQDEALYTEDEARWTEAVIGNRRRODSKESK 460

Search completed: February 3, 2006, 17:36:13


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FILE REFERENCE: BGI-1286PCN
CURRENT APPLICATION NUMBER: US/10/454,437
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: DE 19931636.8
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19932125.6
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932126.4
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932127.2
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932128.0
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932129.9
PRIOR FILING DATE: 1999-07-19
PRIOR APPLICATION NUMBER: DE 19932226.0
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932920.6
PRIOR FILING DATE: 1999-07-14
PRIOR APPLICATION NUMBER: DE 19932922.2
PRIOR FILING DATE: 1999-07-14
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 442
SEQ ID NO 342
LENGTH: 375
TYPE: PRF
ORGANISM: Corynebacterium glutamicum
US-10-454-437-342
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Query Match 5.4%; Score 276; DB 6; Length 375;
Best Local Similarity 26.2%; Pred. No. 8.3e-10;
Matches 97; Conservative 60; Mismatches 177; Indels 36; Gaps 11;
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```
75 CGSKPPSGSPETA---GAGTVAATTPASSPVT--LAETGSLLYPLEFNLMPAFHEKYPN 129
25 CSDNSDSTSSAASSTGSSDPAASIEGLSGVTGQVAEGASQOASANDYFGIRSEAVSG 84
130 VTTAAGTSGAGIAQAAAGTVNIGASDAVISEGDMANHGKLMN-----IALAISAQV 183
85 ASIAATPSSGSGRTNPAAGQVAFGSDSAMKDDQAAEABRCNGNEMKLPVIGVAV 144
184 NNNLPGVSEHLKINGKYLAAVYOGTITKWDPPQIALNPGVNLPGTAVVPLHRSDSGSDT 243
145 AYVLPGV-DTLNLDTNIIAQIFKGEITKMNDEAIASQNEGTDLDPDQISVLYSEESGTS 203
244 FLTPQLSKQDPGKMGKSPFGTT--VDFPAVPGALGNGNGVNTGCATPPGVAVYIGI 301
204 DNFQKFL-----GASTDIWETEGQPFTEVGS-GAQSNGVASASNIEGALITVEA 254
302 SPFDOASQRIAGRAQLGNSGNFLPPDASIOAAAAGFAKTPANQAI---SMIDPAP 357
255 GF---ANQSGIGVANDIDFGSGPVEL-NAESGVALGLDLFTBGMNVVUTDAMFANNEA 310
358 DGYPIINYEYAVNNRQDAATQTLQAFLEMAITTDNKASFLDOVHFQPLPRAVVKLSD 417
311 GAVPLILTYEIVCSAGYDETRDQVMDFLVALDSD-----DQLEALGYIPVTEGHD 365
418 ALIATISSAE 427
160 : : : : :
366 RLVAVAEALQ 375
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```
RESULT 3
US-11-052-554A-283
Sequence 283, Application US/11052554A
Publication No. US2005028866A1
GENERAL INFORMATION:
APPLICANT: Sachdeva, et al.
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
FILE REFERENCE: 30853/40359A
```

```
CURRENT APPLICATION NUMBER: US/11/052,554A
CURRENT FILING DATE: 2005-02-07
PRIOR APPLICATION NUMBER: US 60/589,227
PRIOR FILING DATE: 2004-07-20
PRIOR APPLICATION NUMBER: IN 173/DEL/2004
PRIOR FILING DATE: 2004-02-06
NUMBER OF SEQ ID NOS: 763
SOFTWARE: PatentIn version 3.3
SEQ ID NO 283
LENGTH: 1461
TYPE: PRF
ORGANISM: Escherichia coli 0157:H7
US-11-052-554A-283
```

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Query Match 3.3%; Score 166.5; DB 7; Length 1461;
Best Local Similarity 20.5%; Pred. No. 0.021;
Matches 221; Conservative 124; Mismatches 417; Indels 317; Gaps 52;
```

```
8 HVIDIIGTSPTSEAAAEVORARDSDIRVARIYEDOMAVDSAGKITRYRIKLEVSFK 67
517 HVLGTIVLADGSNNVALDPAVTRITLDRGANTTFVYVTD--AAGNTGAASRAITLV----- 569
68 MRPAQPRCSKPPSGSPETGAGVAVATTPASSPVTL-----AETGSLLYPLEFNLWGP 121
570 -----GVSPLTINTVSGDDIISGAEKAPLITGSTQCAETGQTV---TVTLAQ 617
122 APHERYPNVTTRQGTGS-GAGIAQAAAGTVNIGASDAVISEGDMANHGKLMNIALAISA 180
618 SF-----TTVQADGSWSLTVPAAMGNLPDGAVALIASVYDLSGNTGNTSRITTVDS 670
181 QQVNVNL-----PGVSEHLKINGKYLAAVYOGTITK--- 210
671 QAPALSDPLTADNITNAESGDDLEITGTTDAQPQIVTVTLNGQT---YGVVQPDG 726
211 TWDDPQIALNPGVNLPGTAVVPLHRSDSG-----DTPL 245
727 TW-SVTPVPAANTGALADGNATVTASVNDVAGNPSVSVALVDATPPVVTINPVATDNYI 785
246 FT-QVYLSKQDPGS-MGKSPFGTGYVDFPAVPGALGNGNG-----GMTVGCAETRG 294
786 NTEPHAQAQIISGTVGAQAQGDIVTVTLNNVDTTVTAVDGGNMSLVGPVAVSGLADG-- 843
295 CVAV-IGISFLDQASRGIGEAQLGNSG-----NFLPDAQSIOAAAAGF-----AS 341
844 --SYPVASVSTDAQNGTQSGLTTVYNTAAPLIGINSIGCD-DVYNASEKADLQITGTS 900
342 KTPANQAIEM-IDGPAPDGYPIINYEYAVNNRQDAATQTLQAFLEMAIT-DGNKASF 399
901 DQPVNTAIVTYLNGQ-----NY-----TTTIDAGNMSVTVPASAVTA 938
400 LDQVHFQPLPRAVVK-----LSDALIATISSAEMKTDAAITLQOAGNFERISG 447
939 LQGANV-TVTAATVTDIGNSATASHNVLDVLSALPGVTINPVATDITINAAEAVQAQITISG 997
448 DL-KTQIDYESTASLQCGMRGAGCTAAQAQAVAFQEAANKQKELDEISNINQAGV 505
998 QVTGAEDGDVITTLTG-----GNTYTVATVSGNLTW-----SYDVPAADI 1036
506 Q-YSRADDEQQAALSQMGFTOSQT--VTVQOGEILNRRAN-----EYEAPMADPPTVPIT 558
1037 QALNGNDLVYNASVTNONGNTSGTDITID-----ANLPGRLRVDYAGDVVNI--- 1086
559 PCELTAKNAQAQQLVLSADNMBREYLAAGAKERQLATSLRNAAKAGVEVDEEAPATLND 618
1087 -----IEHGQALVVTGS-----SSGLAESPTLVTINN-----EYTTAVQAD 1124
619 GEGTVQAESAGAVGSSAELTTPRAVATRG-----PNFMDLKEARKLET-- 665
1125 GMSVS-----GVTAQVSAIMPACTVNIIVSGESSAGNSVSIHPVTVDLTPPAITTTITIA 1179
666 -----GDOGASIAFAFDQMN-----TFNLTLQGVKPRGR-----DNWEGDAATPACFA 709
1180 TDVIVNAAEKADLITSGTTTINVEPQIVTVITGG--KVTYASVADSGSTAVTAVPADL 1237
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```

; TYPE: PRT
; ORGANISM: Epstein-Barr virus
US-10-848-976-1

Query Match      3.0%; Score 153; DB 6; Length 641;
Best Local Similarity 38.2%; Pred. No. 0.044;
Matches 50; Conservative 3; Mismatches 68; Indels 10; Gaps 3,

QY      829 GSGTTPGGMGAAPVNPPTSGSPGGGLPDDTAQLTSAGREAAALSGDVAVKASLGGCG-- 887
       |||::|||
DB      88 GTGAGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGG 147

QY      888 ---GGGVPSADLSAIGAESVVRPAAGADIAGLCGRAG---GGAALGGGGMPEMGAH 941
       |||::|||
DB      148 AGAGGAGAGAGAGAGGAGGAGC---AGAGGAGAGAGAGAGAGAGGAGAGAGAGAGA 204

QY      942 QGCGGAKSKGS 952
       |||::|||
DB      205 GGAGGAGAGAGA 215

```

```

RESULT 9
US-10-873-528-109
; Sequence 109, Application US/10873528
; Publication No. US20050276814A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Techniques Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P2129WO
; CURRENT APPLICATION NUMBER: US/10/873,528
; CURRENT FILING DATE: 2004-06-23
; PRIOR APPLICATION NUMBER: US/09/769,787
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 109
; LENGTH: 1236
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; US-10-873-528-109

```

```

Query Match      3.0%; Score 152.5; DB 6; Length 1236;
Best Local Similarity 17.4%; Pred. No. 0.12;
Matches 154; Conservative 138; Mismatches 449; Indels 143; Gaps 26;

QY      12  IIGTSPTSWECMAAEAVORARDSDVDIRVAREIEODM-----AVDSAGKITRYRLK 62
Dd      123  VVSGQTAAATEATATKAYVEDRKKRPSADYVAATVNNIGSAVARRKRSDSIIEQLLASIKN 182
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      63  EVSRKMRPADRCGSKSPSGSPE-----TGAGAGTVAATTAPASSPYTLAET 107
Dd      183  AAVFS-----NTIIVNGAPAINASINIAKSETKVYTGEGVDVSVEVPYIYKLIKLVND 234
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      108  GSTLLYPLFNLMGPAFHERYPNVITITAGCTSGAGIAQAAG--TVINIGAS-DAYLSRG- 163
Dd      235  GSKLTFTY-----TVIYVANKTIDLGNISMRPGYSIYNSGISTQYMLTIGS 281
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      164  DMAAHKGLMNTIALAISAOQV-NYNLPGVSEHLKNGKVLAAMYOGTIKTWDDPOIALN- 221
Dd      282  DLGRPSGVKNIYITDKNGRQVLSYNTSTMTT-----GSSGYTGWNG-AQWNG 326
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      222  ----PGVNLPGTAVVPLHRSDSGSDTFLFTQYLSKODEBGMGKSGEFTYDFAVPAL 277
Dd      327  FFAKKGIGLISWTVPI--TGIDTISFTFTPLPAARTDIGINYENGSGKRVESSTTSOL 383
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      278  GE-----NGNGGMVTCGAETTPGCAVAYIGISFLDQASORG 311

```

```
Db      384 S0KSLSTVSASQSSASASASTSASABASASTSASASASTSASASASTSASASASTSASASASTSASASAST 443
Oy      312 LGEAOLGNSCGNFLLPDAAOSTQAALAAAGFASKTPANAOAIMIDGADPGYPIINYEYAIVN 3711
Db      444 SASASASTSASEBASASTSASASASTSASASASTSASASASTSASEBASASTSASEBASASTSASE 5030
Oy      372 NRQWDAAATQULQATLHMALITDGNKASFLLDDQHFPOLPFAVVKLSPALATLTSSAMKTD 4311
Db      504 SASSTSASASASTSASASASTSASASASTSGSASTSTSTASASTSASASASTSASASASTISASE--S 5600
Oy      432 AATTAAQEAENFERISGLDKTQLDIQDYESTVASIGQGWRGAAGTAACPAAYVRFOEPAANKOKQ 4911
Db      561 ASTSASEAS--TSSTASASTSASEBASASTSASASAS--TSASABASTSASASASTSASASTS 618
Oy      492 ELDEISTNIROAQVOYSRA---DEEOOALSSOGMFTOSQTYTVDOQEILNRANEVEAP 547
Db      619 ASEBASASTSASASASTSASASASTSASASASTSASASASTSASASASTSASASASTSASASASTSAS 678
Oy      548 MADPPTDVPIIPCELTAAKNAAQULVLSDNNREYLA-----AGAKERRORLATSLRNA 600
Db      679 ASTSASEBASASTSASASTSASASTSASASTSASEBASASTSASEBASASTSASEBASASTS 738
Oy      601 AKAYEVUDEEATALDNDGEGTVQAEBSAGAVGGDSAEELTDPRVA--TAGEPFMFLKEA 659
Db      739 ASASASTSASASASTSASASASTSTSTASASTSASASTSASASASTSASASASTISASEBASASTSES 799
Oy      660 ARKLETEGQGSIAIAPFDAGMNTPFNLTLOCDYVRFGDFDMWEGDAATACASALDQ--OROWI 718
Db      799 ASTSTASASTSASASTSASASTSASASASTSASTSASASTSASTSASASTSASTSASASTSASTSASE 847
Oy      719 LHMAKLASAMAKQAOQYVAQLHVMARREHP--TYEDIVGLERLYAENSABDQILLPYAAEQ 777
Db      848 VHLNRHGCVPOQYLVHQLOQ--HORVRLRHQCPVRLQR-----GVRLQIQVPV---LQ 898
Oy      778 QRSERYLTLEYNNKA-----ALEPVNPXPKPPLAIKTIDPPPPPQEQ 816
Db      899 SOHOQVLOPORHOVRLQOAHOHNLNQRRAPLOQPVPVROPORR 942
```

```

RESULT 10
US-11-052-554A-163
; Sequence 163, Application US/11052554A
; Publication No. US20050288866a1
; GENERAL INFORMATION:
; APPLICANT: Sachdeva, et al.
; TITLE OF INVENTION: COMPOSITIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
; TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
; FILE REFERENCE: 30853/40359A
; CURRENT APPLICATION NUMBER: US/11/052,554A
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: US 60/589,227
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; PRIOR APPLICATION NUMBER: IN 173/DEL/2004
; PRIOR FILING DATE: 2004-02-06
; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis H37Rv
US-11-052-554A-163

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	Query Match	3.0%;	Score 152;	DB 7;	Length 606;
	Best Local Similarity	35.3%;	Pred. No. 0.04%;		
	Matches	48;	Conservative	9;	Mismatches 57;
					Indels 22;
					Gaps 5;
QY	829	GGGTTPTGMPMAAMVPTGSPGGGLP---	DTAQLTSAGREAAALSGVYAV---	KXAS	882
DB	408	GAGGVGGTG-----	GSAGPGGGGGAGNGDGGCAANDTSAGSSKRAFSGDGGVGDGAS		459
QY	883	LGGGGGGGVBPAPLGSALGGAEVSPVPAQADIQL-----	GGQRAAGGALGGGGKGM		935
DB	460	LGTGAGEGGL--GGQGANAGAGGILLTGGAGAGGVGTAGAGTGCGSGAGAGAGAGAGCGGGTNS			518

[illegible]

Query Match	2.9%	Score 148.5	DB 7	Length 5712	
Best Local Similarity	20.1%	Pred. No. 1.7			
Matches 200	Conservative 111	Mismatches 357	Indels 325	Gaps 48	
118	LMGPFAHERPNVITTAQGT	-----GSGAGIAQAQAAGVNVIGASDAYLSEGDMAAH-----	K 169		
Db	3800	WVWF---RLVDDVDSVGAIVVRGGGLSGVALVTGGTGLG-----	GLVARHLVSAY 3847		
Qy	170	GLMNLIALAISAOQVNVNLPGVSEHL-KLNG-----	KYLAAMYOGITKTWDDPOIALNPG 223		
Db	3848	GVGSLVLV-VERRGV--AAPGYEELVGBELGAVRVVAC-----	DVADRGAVAEIVGS 3898		
Qy	224	VNIFGIAVNPILHS-----DGGDTFLFTQYLSKODPEGKW-----	KSPGGTTYDFP 271		
Db	3899	IE--GLEVV-VHAAGVDDVIGTSLDERLCGWGPKAMGMHLHELTRGLDISAPVLFSS	3955		
Qy	272	AVPGALGEBNGGVNTGSCAETPGVAV-----	IGISFLDQASQ--RGLGEADLGN 319		
Db	3956	SAAVVLNAGQGYAANAAGFLDALAVHRRGRLPAYSIAMGFMEERBELTADLAAYLSR	4015		
Qy	320	SSGNF--LLPDAOSIQAAAAGFASKTEPANOASIMIDPAPDGPYIINYEYALVNNRQDA	377		
Db	4016	ISRVGASISSAQGLDFDALALADEMVLV-----	TLNLPAL-----RDQ 4057		
Qy	378	ATACTQAFLHMATITDGNKASFLDQVHFPPLPAVVKLSDALIATISSAEKTDATLAQ	437		
Db	4058	AAAGTFLSIISGLVT-----	AAVRRTAGTGT 4084		
Qy	438	EAGNFERISGDILKQIDQVESTGSLGGWRGAAGTAQAQAAVVRFOEANKQOELEIS	497		
Db	4085	PAGRRHQLAG--VTEARRQHQIMELVGEHVAUGLGHNS-----	AELVDAS 4127		
Qy	498	TNIRQAQGVQVSRADDEOQOALSQMGFTQSQVTVVDOEILINRANEVEAPMADP-PTDV	556		
Db	4128	RTPEITGFD-SLTVEILRRIRISATGIRLRATVAFDHPTRLLAERLAEVGSGLPTAAP	4186		
Qy	557	ITPCELTAAKNAAOVLASDNKREYLAAGAKERQRLATSLRNAAKAYGEVDEBATALLD	616		
Db	4187	IAP--VSAVDD--EPYIVGMSGR--PPGVSESPEDLMRLVHSAT-----	DAVSALP 4232		
Qy	617	NDEGTVQAESBAGVGDDSSAELTD-----	PRVATAGEBNMDLKEA 659		
Db	4233	TD-RGMVLDATLSGAKGAGASYARDGGFLYDAEFDAFGFGISPREATAMDPOORLLIEA	4291		
Qy	660	ARKL-----	ETGDOGASLAFHADGNTENTLTLQGVKAFRFGD-----	697	
Db	4292	AMEVFERRAGIADTLTKSRTGVTGTVYHDYGSMLT--	DVDEVEGYLTGTIAGSVASG 4348		
Qy	698	-----NWEGDA--TACEASLDQGRWMLHNA-----	KLSAAMAKOAYVAOLHW 741		
Db	4349	RLATTFGLEGBALTVDRACSSSL-----	VALHLAASLRGEGSLALAGVTYLA-----	4398	
Qy	742	ARREHPTIEDIVGLERLYAENPSARDOIILPYAEYQORSEKULTEVNNKALAEVNPKP	801		
Db	4399	-----	TPQVFVEFTROGLADGRCKP 4420		
Qy	802	PPAKIDPPRPPOQGLPGLFMPSPSGGVPTGTM-----	PAAPVWPPT 847		
Db	4421	PAA-----	GAGGTGMSBEVGLLIVERISDAERNGHVPLAVV--S 4457		
Qy	848	GS-----	PGGGLPADTAAOULTSAGREAAALSG--DV-AVKAASLIGGGGGGVPSAPL 896		
Db	4458	GSAYNQGASNGLTRAPNGPQQQRVIRQDALNNAAGLAARDVAVAEHNGTTLTGDPITBAOL	4517		
Qy	897	GSALIG-GAESVVRPAGDI-AGLQGRAGAGGALIGSGMGKMPGAAIQGGGSAKSQSQ	954		
Db	4518	LATVGGGRDVQOPLMTLSGVKSNIGHTQDAAAGVA--	GVIKVMAMRH--GVLPRTLHV 4570		
Qy	955	EDEA-----	LYTEDRAVTEAVTGNRRR 976		

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